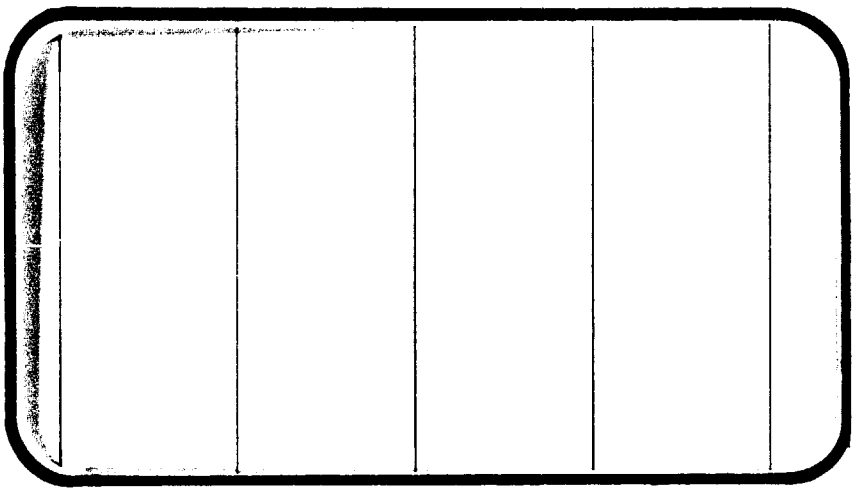
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

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VOLUME II

RESULTS OF TESTS 0A63 AND IA29 ON AN 0.015-SCALE MODEL OF THE SPACE SHUTTLE CONFIGURATION 140 A/B IN THE NASA/ARC 6- BY 6-FOOT TRANSONIC WIND TUNNEL

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Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	ARC 66-630
NASA Series Number:	OA63 and IA29
Model Number:	36-OTS
Test Dates:	9/12/73-9/28/73

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RESULTS OF TESTS 0A63 AND 1A29 ON AN 0.015-SCALE MODEL

OF THE SPACE SHUTTLE CONFIGURATION 140 A/B

IN THE NASA/ARC 6- BY 6-FOOT TRANSONIC WIND TUNNEL

By R. H. Spangler* and D. E. Thornton*

ABSTRACT

Tests were conducted in the NASA/ARC 6- by 6-Foot Transonic Wind Tunnel from September 12 to September 28, 1973 on an 0.015-scale model of the Space Shuttle configuration 140 A/B. Surface pressure data were obtained for the orbiter for both launch and entry configuration at Mach numbers from 0.6 to 2.0

The surface pressures were obtained in the vicinity of the cargo bay door hinge and parting lines, the side of the fuselage at the crew compartment and below the OMS pods at the aft compartment. Data were obtained at angles of attack and sideslip consistent with the expected divergencies along the nominal trajectory. These tests were the first in a series of tests supporting the orbiter venting analysis. The series will include tests in three facilities covering a total Mach number range from 0.6 to 10.4.

This report is published in three volumes. Volume I contains representative plotted data while the remaining volumes present the tabulated source data. Integrated Vehicle tabulated data are to be found in Volume II and Orbiter Alone data in Volume III.

* Rockwell International

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Radial Distribution of Local Pressure Field for Orbiter Alone (90° ≤ PHI ≤ 180°)	B	X/L,MACH,RN/L	469-540

COEFFICIENT SCHEDULE:

A: CP vs. X/L

B: CP vs. PHI

INTRODUCTION

The 0.015-scale vent pressure model (36-OTS) was tested in the NASA ARC 6- by 6-Foot Transonic Wind Tunnel over a Mach number range from 0.6 to 2.0. Test IA29 of the launch configuration started September 12 and continued through September 25 and OA63 of the entry configuration started September 25 and continued through September 28.

Pressure data were obtained to enable the evaluation of orbiter venting requirements during both launch and entry. The investigation encompassed angles of attack and side slip consistent with nominal trajectory requirements.

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

Reference & C.G. Definitions

A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} or $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

ADDITIONAL NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
X/ℓ	X/L	longitudinal location on orbiter fuselage, fraction of body length.
δ_{e_L}	ELEVON	left elevon deflection angle, positive trailing edge down, degrees.
Φ	PHI	angular location on orbiter fuselage, degrees.

CONFIGURATIONS INVESTIGATED

The 0.015-scale model was a replica of the Space Shuttle [illegible] tion 140 A/B Orbiter and Vehicle 4 external tank (ET) and solid r[illegible] boosters (SRB). Though the attach points for the SRB and ET were in the proper location no attempt was made to simulate the actual attach configuration. Also, the external feed and vent lines on the ET were not simulated.

The orbiter was instrumented with 176 pressure taps on the left side of the fuselage. The orifices were located at the cargo bay door hinge and parting lines, on the side of the fuselage by the crew compartment and below the OMS pod at the aft compartment. The ET and SRB's were not instrumented.

The pressures were measured by four ±10 psid Stathan PM 131 TC differential pressure transducers housed in four type S scanivalve pressure multiplexors driven by a single solenoid type stepper. Reference and calibration pressures were measured by the facility Exactel micro-manometers. Reference pressures were generally set equal to free stream static pressure.

Two configurations were tested. During launch vehicle testing the SRB's were attached to the tank and the ET to the orbiter. All control surfaces were set at 0° deflection. For entry configuration testing the SRB's and ET were replaced with appropriate off blocks. The left elevon was set at -15°. All other control surfaces remained at 0° deflection.

During the course of the test some pressure orifices or associated tubing developed leaks or became plugged. The following list presents these discrepancies and the effected runs.

IA29

Runs 1-24	leaks: P144, 204, 212, 428, 445 pinched: 308, 312
25-49	same leaks pinched: P211, P226
50-86	same leaks pinched: 211, 226, 404, 422
87	reference pressure leak
88	same leaks plus 426, 427, 429
89-99	same leaks pinched: 130, 402
100-111	same leaks pinched: 130, 210, 211, 402

OA63

112-199	same leaks

The model was sting supported from the orbiter base in an inverted position. Sting adapters were used to provide necessary sideslip angles. Leak and continuity checks of the instrumentation were made. Due to an installation error, the dangleometer mounted in the model could not be used. Installation photographs are shown as figure 3.

Test IA29 was conducted as planned except for the omission of M = 1.0 testing due to difficulties in setting this tunnel condition and the questionable resulting data. Other data at Mach numbers close to M = 1 were obtained but should be utilized only after qualitative evaluation of the Schlieren photos (figures 4 and 5).

TEST FACILITY DESCRIPTION

The 6- by 6-Foot Wind Tunnel of the NASA Ames Research Center is a closed-circuit, variable pressure facility. The test section has a slotted floor and ceiling, allowing for continuous operation from Mach number 0.25 to 2.20 at stagnation pressures from 0.3 to 1.0 atmosphere for a stagnation temperature of 560°R. These conditions allow Reynolds number variation from 1 to 5 million per foot and a dynamic pressure range from 200 to 1000 pounds per square foot.

TABLE I.

TEST : IA29/0A63 DATE : SEPT., 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
2.0	2.5×10^6/Ft	3.58	90
1.75	3.0×10^6/Ft	4.40	90
1.75	2.5×10^6/Ft	3.59	90
1.50	4.0×10^6/Ft	5.70	90
1.50	3.5×10^6/Ft	4.85	80
1.40	4.3×10^6/Ft	5.95	90
1.40	4.0×10^6/Ft	5.52	90
1.40	3.5×10^6/Ft	4.79	80
1.25	4.0×10^6/Ft	5.45	90
1.25	3.5×10^6/Ft	4.69	80
1.15	4.0×10^6/Ft	5.25	90
1.15	3.5×10^6/Ft	4.53	80
1.10	4.0×10^6/Ft	5.20	90
1.10	3.5×10^6/Ft	4.49	80
1.05	4.0×10^6/Ft	5.04	85
1.05	3.5×10^6/Ft	4.34	80

BALANCE UTILIZED: None

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF			
SF			
AF			
PM			
RM			
YM			

COMMENTS: Model was instrumented with pressure transducers

TABLE I. - Concluded.

TEST : IA29/0A63 DATE : SEPT.,1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.95	4.0×10^6/Ft	4.63	80
0.95	3.5×10^6/Ft	4.13	80
0.85	4.0×10^6/Ft	4.38	80
0.85	3.5×10^6/Ft	3.87	80
0.75	4.0×10^6/Ft	4.01	80
0.75	3.5×10^6/Ft	3.52	80
0.60	3.5×10^6/Ft	2.95	80
2.0	2.25×10^6/Ft	3.12	80
1.75	2.25×10^6/Ft	3.18	80

BALANCE UTILIZED: None

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF			
SF			
AF			
PM			
RM			
YM			

COMMENTS: Model was instrumented with pressure transducers

TABLE II.

TEST: 66-630 ϕA63 | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE: SEPT 25-28, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Se	Sa	SR	RN	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.75	0.85	0.95	1.05	1.10	1.15	1.25	1.40	1.50	TEST RUN NUMBERS
RE001	B26C9FRM7N28	B	0	-15	0	0	2.25												
02	VB R5 W116 E26		0				3.5		123	122	121	120	119	118	117	116	115	114	
03			-2				2.25												
04			-2				3.5		135	134	133	132	131	130	129	128	127	126	
05			2				2.25												
06			2				3.5		147	146	145	144	143	142	141	140	139	138	
07			4				2.25												
08			4				3.5		159	158	157	156	155	154	153	152	151	150	
09			-4				2.25												
10			-4				3.5		173	172	171	170	169	168	167	166	165	164	
11			6				2.25												
12			6				3.5		185	184	183	182	181	180	179	178	177	176	
13			-6				2.25												
14			-6				3.5		197	196	195	194	193	192	191	190	189	188	
15			-2				2.25												
			-4														163	162	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CP MACH ALPHA 1

α OR β SCHEDULES: α) B= 6, 8, 10, ... 16

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

TABLE II. - Continued.

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : SEPT 25 - [illegible] 73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Se	Sc	SR	RN	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.75	2.0	TEST RUN NUMBERS
RE0001		B	0	-15	0	0	2.25		113	112	
02			0				3.5				
03			-2				2.25		199	198	
04			-2				3.5				
05			2				2.25		137	136	
06			2				3.5				
07			4				2.25		149	148	
08			4				3.5				
09			-4				2.25		161	160	
10			-4				3.5				
11			6				2.25		175	174	
12			6				3.5				
13			-6				2.25		187	186	
14			-6				3.5				
15			-2				2.25		125	124	
16											

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CP MACH ALPHA 1

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. - Continued.

TEST: 66-630 IA29 — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: SEPT 12-25, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_e	δ_a	δ_r	R_N	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 0.6	0.75	0.85	0.95	1.05	1.10	1.15	1.25	1.4	1.5	TEST RUN NUMBERS
REBC01	$\phi_1 + T_{12} + S_{12} + N_{25}$	A	0	0	0	0	2.65												
02							3.0												
03							3.5		12										
04							4.0			11	10	9	8	7	6	5		3	
05							4.3										4		
06			+2				2.5												
07							3.5		24										
08							4.0			23	22	21	20	19	18	17	16	15	
09			-2				2.5												
10							3.5		36										
11							4.0			35	34	33	32	31	30	29	28	27	
12							4.0							31A					
13			4				2.5												
14							3.5		48										
15							4.0			47	46	45	44		42	41	40	39	
16		A2					4.0							43					
17		A3	-4				2.25												
18		A3	-4				2.5												

1 7 13 19 25 31 37 43 49 55 61 67 75 76

C.P. MACH ALPHA 1

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES — COEFFICENTS

A = -8, -6, -4, -2, 0, 2, 4, 6, 8, 0

A1 = -8, -4, -2, 0, 2, 4, 8, 0 (RUN 22)

A2 = -8, -4, -2, 0, 2, 4, 6, 8, 0

A3 = -8, -6, -4, -2, 0, 2, 4, 6, 8

TABLE II. - Continued.

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : SEPT 12 - [illegible], 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES Sc	Sa	Sf	RN	NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE) 1.75	2.0	TEST RUN NUMBERS
REB001	$\phi_L + T_{12} + S_{12} N_{25}$	A	0	0	0	0	2.65			1	
02							3.0		2		
03							3.5				
04							4.0				
05							4.3				
06			+2				2.5		14	13	
07							3.5				
08							4.0				
09			-2				2.5		26	25	
10							3.5				
11							4.0				
12							4.0				
13			4				2.5		38	37	
14							3.5				
15							4.0				
16		A2					4.0				
17		A3	-4				2.25			52	
18		A3					2.5		50	49	

1 7 13 19 25 31 37 43 49 55 61 67 73 76

CP MACH ALPHA 1

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. - Continued.

TEST: 66-LEO II.1 | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE: SEPT 12-25, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									TEST RUN NUMBERS
									0.6	0.75	0.85		1.05	1.10	1.15	1.25	1.4	1.5
REB019	ϕ_1+T$_{10}$+S$_{16}$N$_{25}$	A[illegible]	-4	0	0	0	3.5		63	62	61	[illegible]	[illegible]	[illegible]	56	55	[illegible]	[illegible]
20		A[illegible]	-4				4.0				60					54		
21			6				2.25											
22			6				3.5		15	74	73	76	71	70	69	68	67	66
23			-6				2.25											
24			-6				3.5		87	86	85	84	83	82	81	80	79	78
25			8				2.25											
26			8				3.5		99	98	97	88	96	95	94	93	92	91
27			-8				2.25											
28			-8				3.5		111	110	109	108	107	106	105	104	103	102

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CF | MACH | ALPHA | 1

COEFFICENTS | IDVAR (1) | IDVAR (2) | NDV

α OR β SCHEDULES

TABLE II. - Concluded.

TEST :

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE : SEPT [illegible], 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS
						SR	RN												
REF 17	[illegible]	A3	-1	0	0	0	3.[illegible]												
20		A3	4				4.[illegible]												
21			6				2.[illegible]		65	64									
22			6				3.[illegible]												
23			-6				2.59		99	[illegible]									
24			-6				3.5												
25			8				2.25		90	89									
26			8				3.5												
27			-8				2.25		101	100									
28			-8				3.5												

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CF [illegible] 1

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B_{26}

GENERAL DESCRIPTION: Orbiter Fuselage Configuration 140 A/B

NOTE: B_{26} identical to B_{24} except underside of fuselage refaired to accept W_{116}.

Model Scale = 0.015

DRAWING NUMBER: VL70-000200
VL70-000140A/B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
*Length (Body nose X_o = 235) - in.	1293.3	19.3995
Max. Width (at X_o = 1520) - in.	262.0	3.93000
Max. Depth (at X_o = 1464) - in.	250.0	3.75000
Fineness Ratio	4.92481	4.92481
Area - ft^2		
Max. Cross-Sectional	340.88462	0.07670
Planform	———	———
Wetted	———	———
Base	———	———
* NOTE: Theoretical body length used in data reduction - in.	1290.3	19.35450

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - Continued.

MODEL COMPONENT: CANOPY - Co

GENERAL DESCRIPTION: Configuration 3A

Model Scale = 0.015

DRAWING NUMBER V170-030140A
V170-030143

DIMENSION:	FULL SCALE	MODEL SCALE
Length (X_o=434.643 to 670)	235.357	3.53036
Max Width (X_o=513.127)	152.412	2.28618
Max Depth (X_o=485.0)	25.000	0.37500
Fineness Ratio		
Area		
Max Cross-Sectional		
Planform		
Wetted		
Base		

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - Continued.

MODEL COMPONENT: ELEVON - E_{26}

GENERAL DESCRIPTION: Configuration 4

Data for (1) of (2) sides. Identical to [illegible]

airfoil thickness

Model Scale = 0.015

DRAWING NUMBER: VL70-[illegible]
VL70-003140 A/B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	223.5814	0.05031
Span (equivalent)	368.34	5.52510
Inb'd equivalent chord	119.623	1.79434
Outb'd equivalent chord	55.1922	0.82788
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outb'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Tailing Edge	-10.056	-10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)	851.1502	0.00287

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - Continued.

MODEL COMPONENT: Body Flap - F_8

GENERAL DESCRIPTION: Configuration 1

MODEL SCALE: 0.015

Model Scale -

DRAWING NUMBER VL70-000140A/B, VL70-000200

DIMENSION:	FULL SCALE	MODEL SCALE
Length in.	94.856	1.42284
Max Width in.	262.308	3.943462
Max Depth in.	23.000	0.34500
Fineness Ratio		
Area - ft^2		
Max Cross-Sectional		
Planform	158.85350	0.03574
Wetted		
Base	41.89642	0.00943

TABLE III. - Continued.

MODEL COMPONENT: OMS POD - M_7

GENERAL DESCRIPTION: Configuration 3A

MODEL SCALE: 0.015

DRAWING NUMBER: VL70-000140A/B
VL70-000145

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length (OMS Fwd Sta. X_o = 1233.0) IN.	327.000	4.9050
Max. Width (@ X_o = 1450.0) - IN.	94.5	1.41
Max. Depth (@ X_o = 1493.0) - IN.	109.000	1.6350
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. - Continued.

MODEL COMPONENT: BSRM NOZZLES - N25

GENERAL DESCRIPTION: Configuration 3A BSRM Nozzles

Model Scale = 0.015

DRAWING NO. VL72-000088A
VL77-000036B

DIMENSIONS	FULL-SCALE	MODEL SCALE
MACH NO.		
DIAMETER DEX ~ IN (One Nozzle)	141.3	2.11950
DIAMETER DT ~ IN		
DIAMETER DIN ~ IN		
ON ~ DEGREES		
AREA - FT^2 (One Nozzle)		
MAX CROSS-SECTIONAL	108.89595	0.02450

GIMBAL ORIGIN	X_o	Y_o	Z_o
LEFT NOZZLE ~ IN. F.S.	1825.3	-243	400
RIGHT NOZZLE ~ IN. FS	1825.3	+243	400

NULL POSITION - DEG.	PITCH	YAW
LEFT NOZZLE	±8	±8
RIGHT NOZZLE	±8	±8

TABLE III. - Continued.

MODEL COMPONENT: RUDDER - R5

GENERAL DESCRIPTION: 3A Configuration Rudder

Model Scale = 0.015

DRAWING NUMBER: VL70-000146A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - FT^2	106.38	0.02394
Span (equivalent) - IN.	201.0	3.01500
Inb'd equivalent chord	91.585	1.37378
Outb'd equivalent chord	50.833	0.76249
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) - FT^3 Product of Area and Mean Chord	526.13	0.00178

TABLE III. - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S12

GENERAL DESCRIPTION: Configuration 3A, Data for (1) of (2) sides.

Model Scale = 0.015

DRAWING NUMBER VL72-000088A
VL77-000036A

DIMENSION:	FULL SCALE	MODEL SCALE
Length (Includes Nozzle) - IN.	1741.0	26.115
Max Width (Tank Dia) - IN.	142.3	2.1345
Max Depth (Aft Shroud) - IN.	192.0	2.880
Fineness Ratio	9.06771	9.06771
Area - FT^2		
Max Cross-Sectional	201.06193	0.04524
Planform		
Wetted		
Base		
WP of BSRM Centerline (Z_T) - IN.	400	6.000
FS of BSRM Nose (X_T) - IN.	200	3.000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - Continued.

MODEL COMPONENT: EXTERNAL TANK - T12

GENERAL DESCRIPTION: External Oxygen Hydrogen Tank

NOTE: Identical to T11 with external fuel lines added

Model Scale = 0.015

DRAWING NUMBER VL72-000088A
VL78-000041 B

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN. (Nose @ X_T = 309)	1865	27.975
Max Width (Dia) - IN.	324	4.860
Max Depth		
Fineness Ratio	5.75617	5.75617
Area - FT^2		
Max Cross-Sectional	572.555	0.12882
Planform		
Wetted		
Base		
WP of Tank Centerline (Z_T) - IN.	400.0	6.000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V 2

GENERAL DESCRIPTION: Configuration 3A

NOTE: Similar to V5 with radius on TW upper corner and LE lower corner where vertical meets fuselage.

Model Scale = 0.015

DRAWING NUMBER: VL70-0001[illegible]/B
VL70-0001[illegible]

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	413.253	0.09298
Planform		
Span (Theo) In	305.720	4.73580
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	25.947	25.947
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	4.02750
Tip (Theo) WP	108.470	1.62705
MAC	199.80756	2.99711
Fus. Sta. of .25 MAC	1463.50	21.95250
W. P. of .25 MAC	635.522	9.53283
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.00	10.00
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius (Min) - IN.	2.00	0.0300
Void Area	13.17	0.00296
Blanketed Area	0.00	0.00

TABLE III. - Concluded.

MODEL COMPONENT: WING-W_{116}

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W_{114} except airfoil thickness. Dihedral angle is along trailing edge of wing.

Model Scale = 0.015

TEST NO.	DWG. NO.	VL70-000140A/B VL70-000200
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2 Planform	2690.00	0.60525
Span (Theo In.	936.6816	14.05022
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees(at X_o=1506.623,Y_o=	3.500	3.500
Incidence Angle, degrees 105, Z_o= 282.75)	0.500	0.500
Aerodynamic Twist, degrees	+3.000	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	-10.056	-10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.2429	10.33864
Tip, (Theo) B.P.	137.8486	2.06773
MAC	474.8117	7.12218
Fus. Sta. of .25 MAC	1126.721	17.05082
W.P. of .25 MAC	291.00	4.36500
B.L. of .25 MAC	187.33491	2.81002
EXPOSED DATA		
Area (Theo) Ft^2	1812.2205	0.40775
Span, (Theo) In. BP108	736.6816	11.05022
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	570.6230	8.55934
Tip 1.00 $\frac{b}{2}$	137.8512	2.06777
MAC	354.2376	5.31356
Fus. Sta. of .25 MAC	1164.237	17.46356
W.P. of .25 MAC	292.00	4.38000
B.L. of .25 MAC	239.67786	3.59517
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ = 0.425	0.113	0.113
Tip $\frac{b}{2}$ = 1.00	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	118.333	0.02662
Leading Edge Intersects Fus M. L. @ Sta	505.0	7.57500
Leading Edge Intersects Wing @ Sta	1003.5	15.05250

TABLE IV. - PPESSURE TAP LAYOUT

X_o.	X/L	ϕ=60	ϕ=70	ϕ=80	ϕ=90	ϕ=100	ϕ=110	ϕ=120	ϕ=130	ϕ=140	ϕ=150	ϕ=160	ϕ=170	ϕ=180
350	.087	102	103	104										
400	.126	105	106	107										
450	.164	108	109	110	111									
500	.203				112									
550	.242				113									
578	.264				114	115	116	117	118	119	120	121	122	123
602	.282				126	127	128							129
626	.301				130	131	132							133
650	.319				134	135	136							137
674	.338				138	139	140							141
698	.357				142	143	144							145
722	.375				146	147	202							203
746	.394				204	205	206							207
760	.405				208	209	210	211	212	213	214	215	216	217
794	.431				218	219	220							221
818	.450				222	223	226							227
842	.468				228	229	230							231
866	.486				232	233	234							235
890	.505				236	237	238							239
914	.524				240	241	242							243

TABLE IV. - PRESSUPE TAP LAYOUT - Concluded.

X_o	X/L	ϕ=60	ϕ=70	ϕ=80	ϕ=90	ϕ=100	ϕ=110	ϕ=120	ϕ=130	ϕ=140	ϕ=150	ϕ=160	ϕ=170	ϕ=180
					244	245	246	247	302	303	304	305	306	307
942	.546				308	309	310							311
962	.561				312	313	314							315
986	.580				316	317	318							319
1010	.598				320	321	322							323
1034	.617				326	327	328							329
1058	.636				330	331	332							333
1082	.654				334	335	336							337
1106	.673				338	339	340	341	342	343	344	345	346	347
1125	.688				402	403	404							405
1154	.710				406	407	408							409
1178	.729				410	411	412							413
1202	.747				414	415	416							417
1226	.767				418	419	420							421
1250	.785				422	423	426							427
1274	.803				428	429	430	431	432	433	434	435	436	437
1307	.829													
1350	.862	438	439	440	441									
1400	.900		442	443	444									
1450	.940		445	446	447									

ϕ in degrees, measured clockwise from bottom centerline (looking forward) about FRL at Z_o = 400, Y_o = 0.0

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

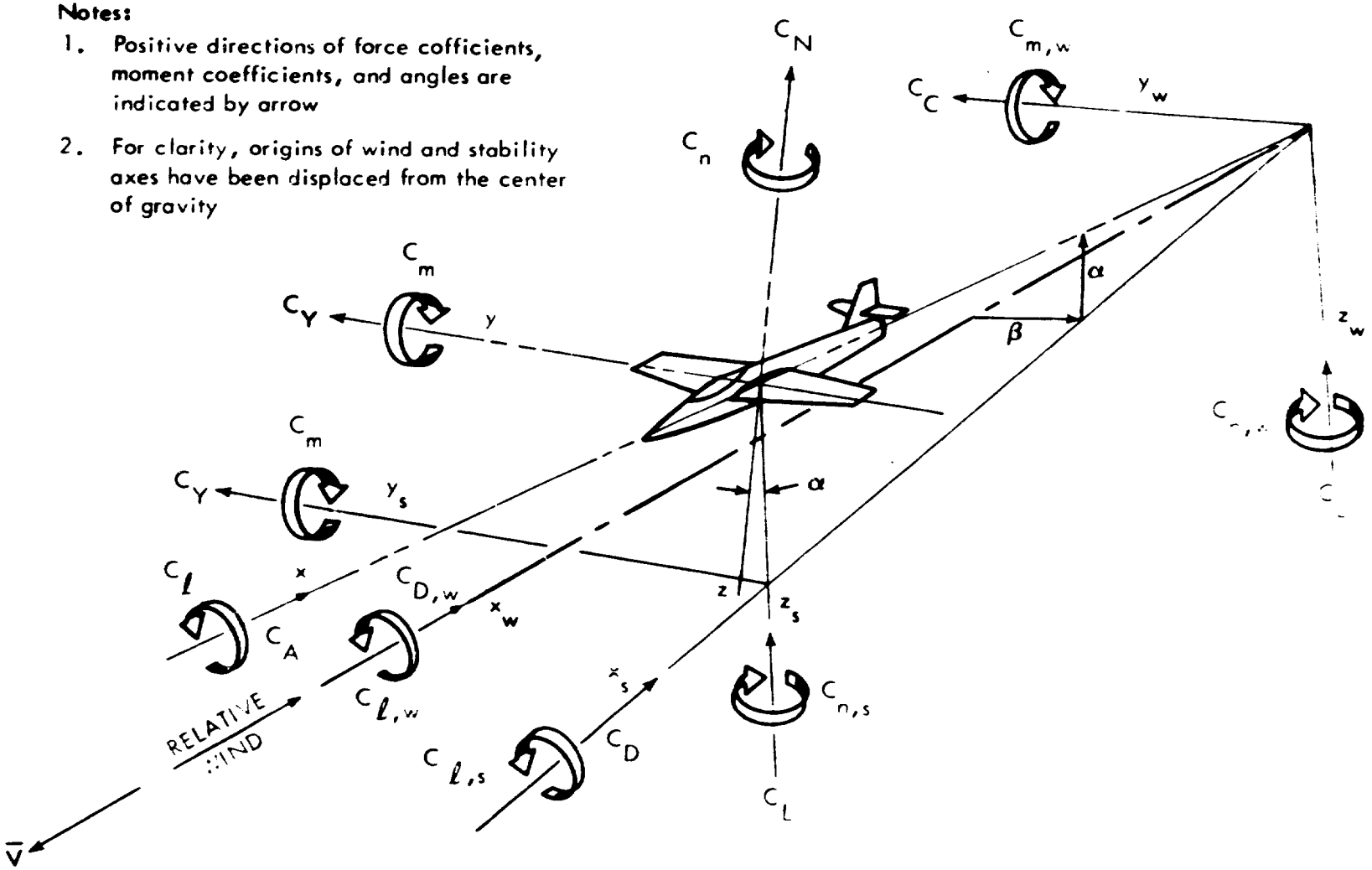


Figure 1. - Axis systems.

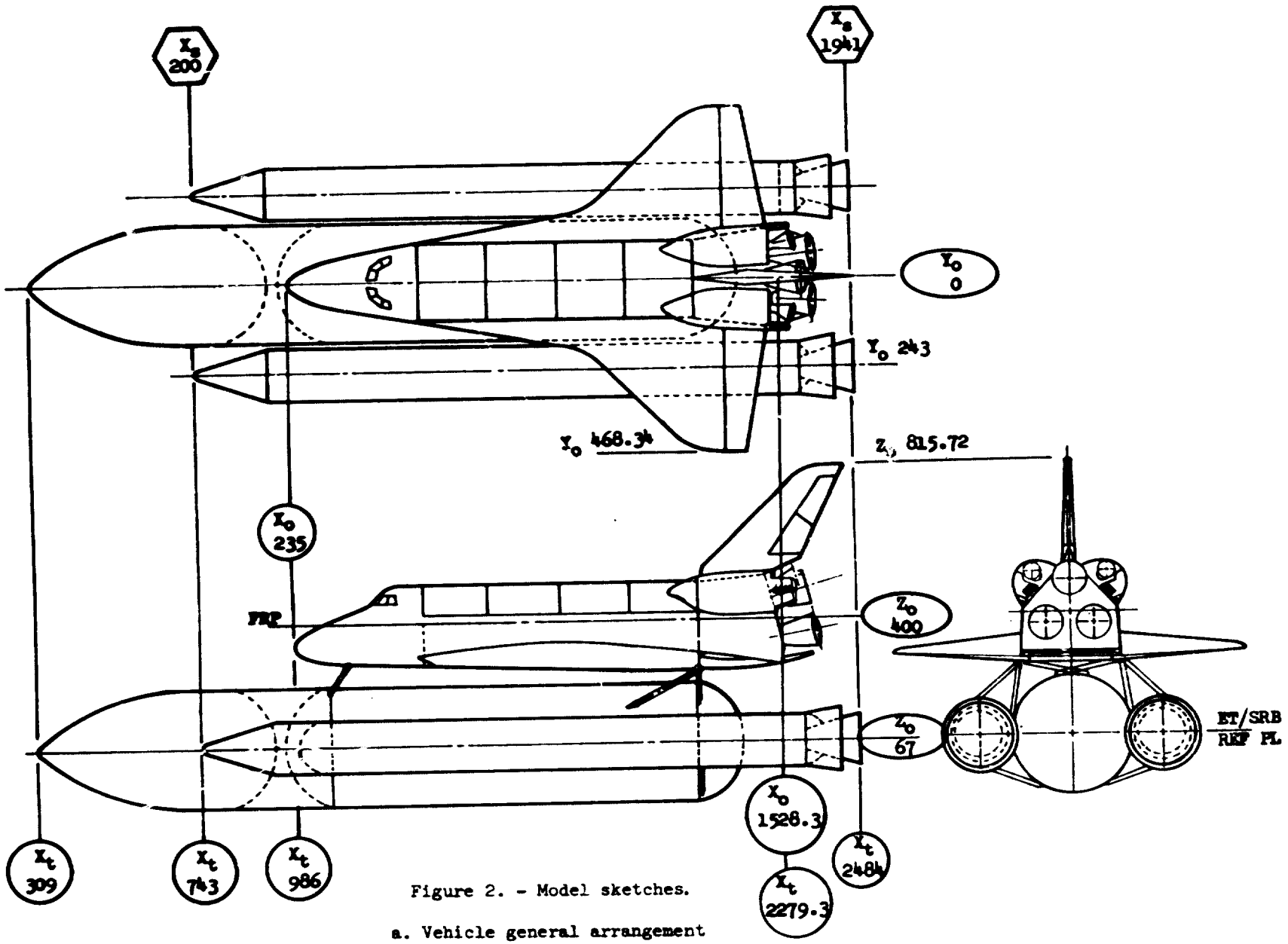


Figure 2. - Model sketches.

a. Vehicle general arrangement

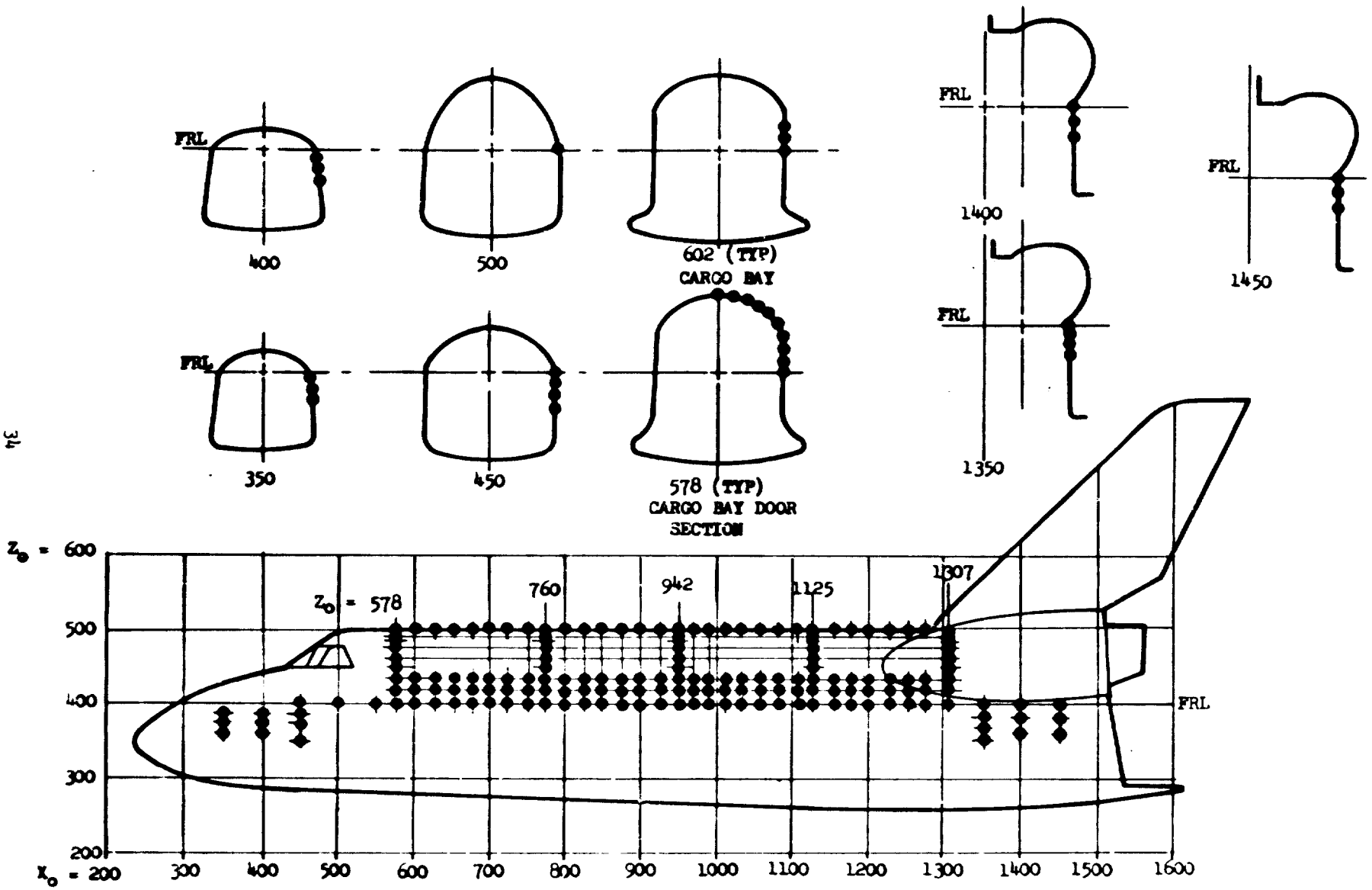
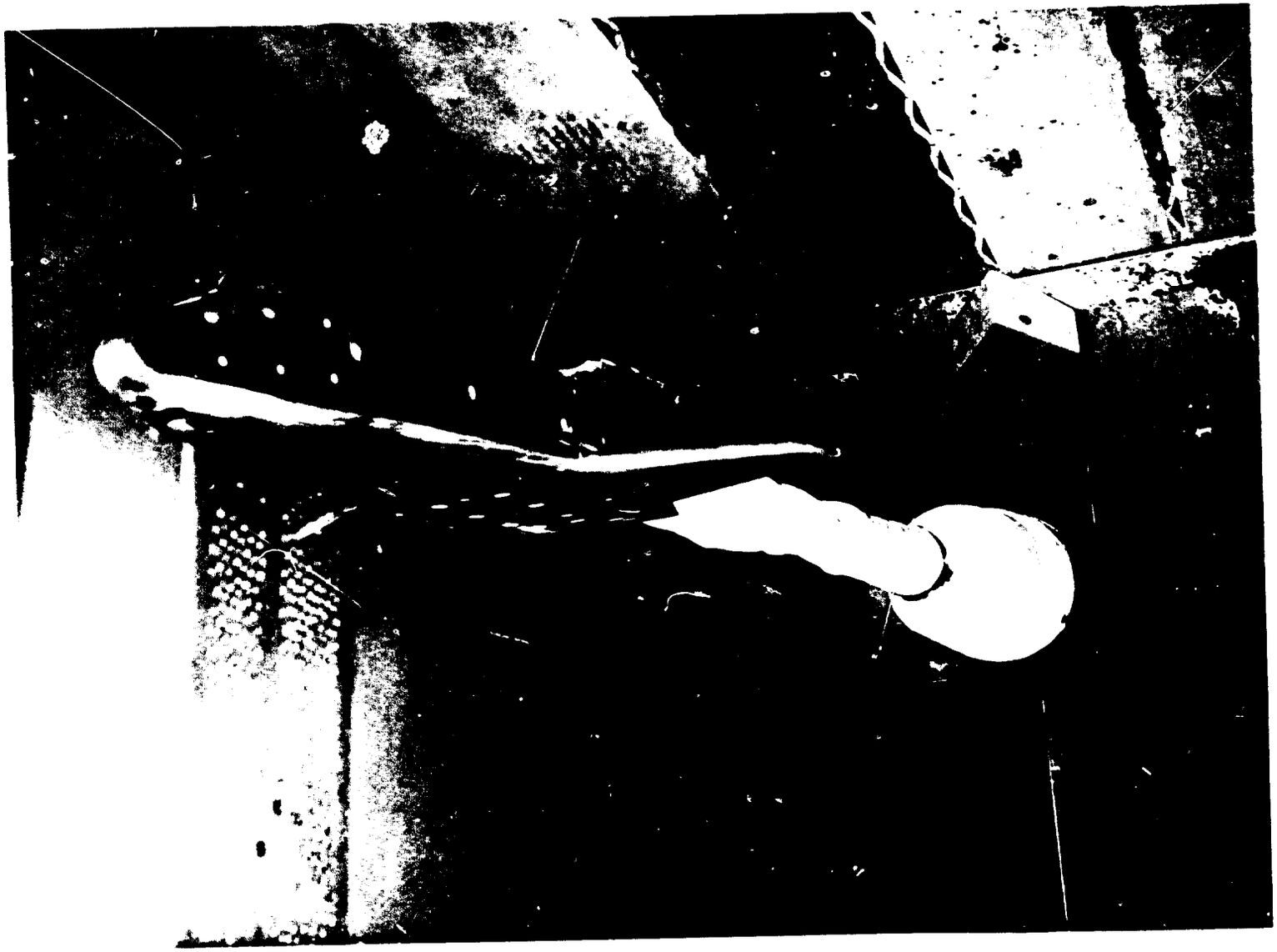


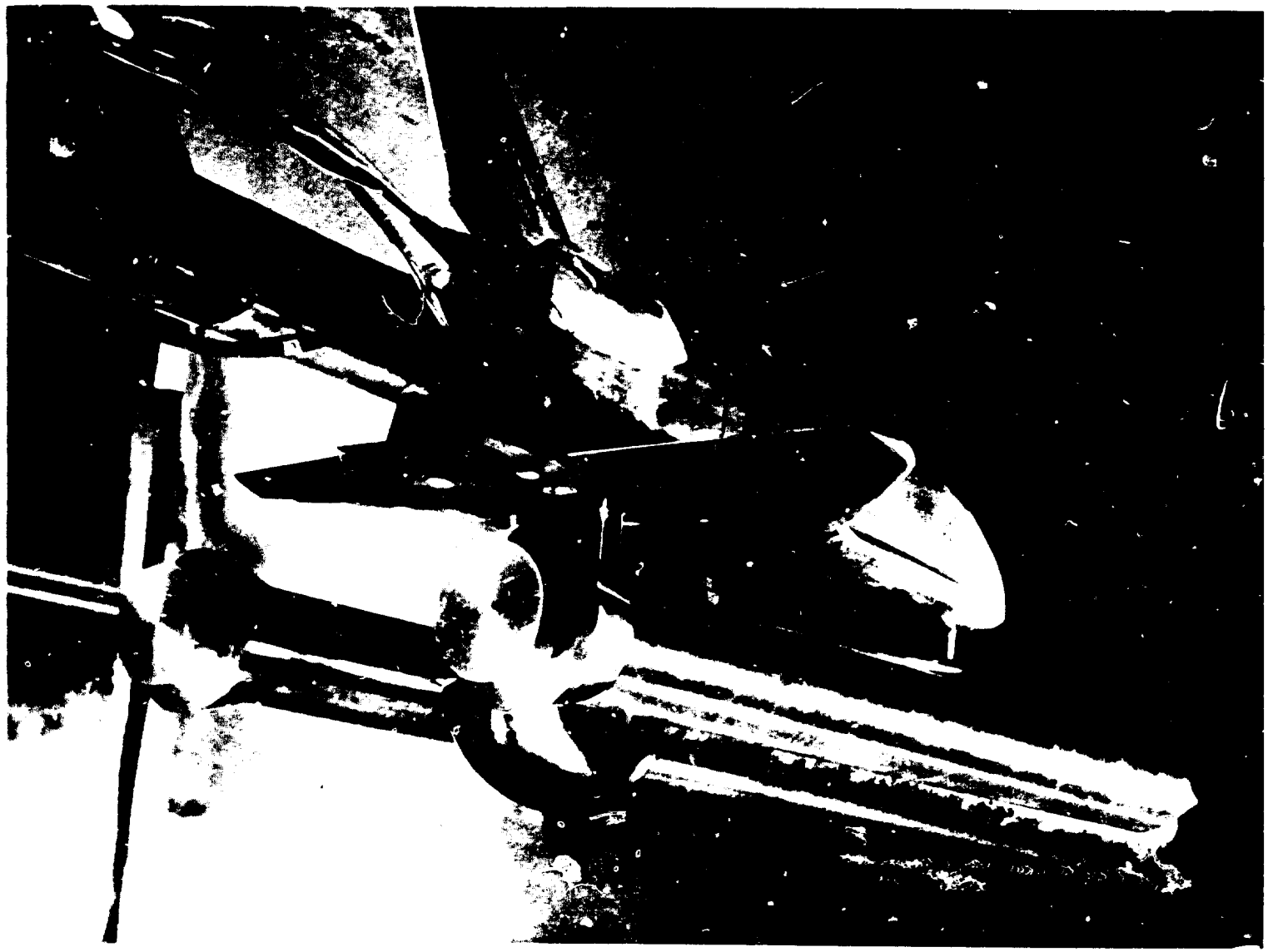
Figure 2. - Concluded.

b. Orbiter Pressure Tap Locations



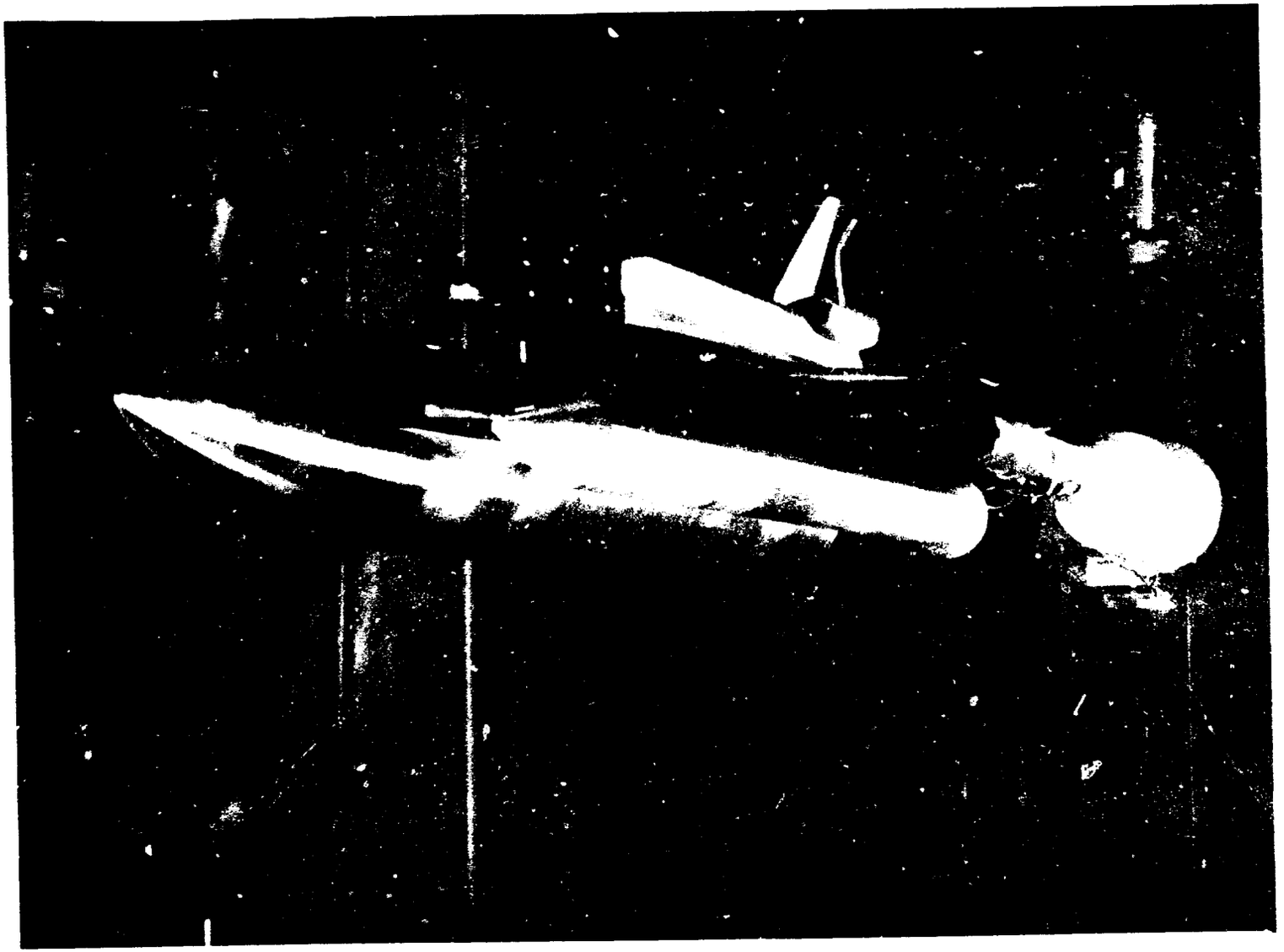
(a) One-quarter view model 36-0 installed in ARC 6- by 6-Foot Wind Tunnel.

Figure 3. - Model photographs.



(b) Three-quarter view model 36- T installed in ARC 6- by 6-F[illegible] Wind Tunnel.

Figure 3. - Continued.



(c) One-quarter view model 36-OTS installed in ARC 6- by 6-Foot Wind Tunnel.

Figure 3. - Continued.



(d) Three-quarter view model 36-6 installed in AFC 6- by 6-Foot Wind Tunnel.

Figure 3. - Concluded.



a. Mach = 2.0, $\alpha = 0°$, $\beta = -4°$

Figure 4. - Schlieren Photographs - Test IA29



b. Mach = 1.4, $\alpha = 0°$, $\beta = .4°$

Figure 4. - Continued.



c. Mach = 1.25, $\alpha = 0°$, $\beta = -4°$

Figure 4. - Continued.



d. Mach = 1.15, $\alpha = 0^\circ$, $\beta = -4^\circ$

Figure 4. - Continued.



e. Mach = 1.10, $\alpha = 0°$, $\beta = -4°$

Figure 4. - Continued.



f. Mach = 1.05, $\alpha = 0°$, $\beta = -4°$

Figure 4. - Continued.



g. Mach = 0.95, α = 0°, β = -4°

Figure 4. - Continued.



h. Mach = 0.85, $\alpha = 0°$, $\beta = -4°$

Figure 4. - Concluded.



a. Mach = 2.0, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Schlieren Photographs - Test 0A63



b. Mach = 1.5, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Continued.



c. Mach = 1.5, $\alpha = 0^\circ$, $\beta = 0^\circ$

Figure 5. - Continued.



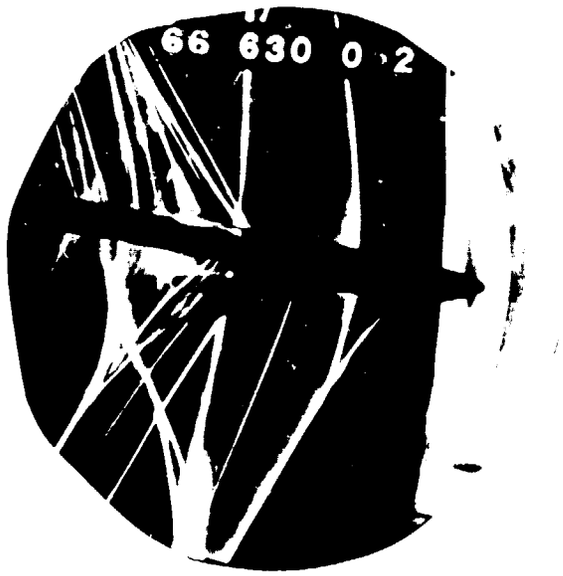
d. Mach = 1.96, $\alpha = 6^{\circ}$, $\beta = 0^{\circ}$

Figure 7. - Continued.



e. Mach = 1.15, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Continued.



f. Mach = 1.10, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Continued.



g. Mach = 1.05, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Continued.



h. Mach = 0.95, $\alpha = 6°$, $\beta = 0°$

Figure 5. - Concluded.

APPENDIX

INTEGRATED VEHICLE DATA ONLY
(SEE VOLUME III FOR ORBITER ALONE DATA)

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB001) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.650

MACH (1) = 2.005 ALPHA (1) = -7.860

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3355	.3899	.2564												
70.000	.3611	.3774	.3100												
80.000	.3844	.3789	.3463												
90.000			.3701	.2619	.0499	.0018	-.0112	-.0345	-.0523	-.0744	-.0767	-.0798	.0000	-.0617	-.0622
100.000						.0020	-.0226	-.0340	-.0513	-.0713	-.0814	-.0881	-.0714	-.0694	-.0542
110.000						-.0597	-.0663	-.0746	-.0650	-.0736	-.0736	-.0645	-.0570	-.0607	-.0460
120.000						.0248								-.0065	
130.000						-.0323								.0000	
140.000						-.0608								.0130	
150.000						-.0424								.0225	
160.000						-.0395								.0336	
170.000						-.0413								.0423	
180.000						-.0395	.0023	.0401	.0591	.0611	.0653	.0593	.0531	.0481	.0398

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0463	-.0423	-.0259	-.0062	.0198	.0318	.0000	.0000	.0550	.0630	.0747	.0747	.0740	.0697	.0584
100.000	-.0435	-.0463	-.0363	-.0271	-.0080	.0140	.0283	.0388	.0490	.0455	.0600	.0635	.0680	.0722	.0587
110.000	-.0393	-.0376	11	-.0333	-.0304	-.0202	-.0005	.0200	.0315	.0368	.0400	.0422	.0525	.0532	.0503
120.000						-.0152								.0292	
130.000						-.0074								.0137	
140.000						.0022								.0057	
150.000						.0203								.0045	
160.000						.0250								.0067	
170.000						.0315								.0025	
180.000	.0283	.0235	.0323	.298	.0323	.0305	.0250	.0195	.0148	.0315	.0135	.0102	.0065	.0080	.0028

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0938		
70.000							.0862	.0807	.0000
80.000							.1018	.0540	.0365
90.000	.0424	.0249	.0256	.0292	.0885	.0000	.1116	.0499	.0123
100.000	.0589	.0412	.0344	.0656	.1222	.1322			
110.000	.0515	.0310	.0505	.1457	.1778	.1097			
120.000						.1874			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (SEB001)

MACH (1) = 2.003 ALPHA (1) = -7.860

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.4134			
140.000						.4180			
150.000						.4360			
160.000						.4185			
170.000						.4043			
180.000	.0035	.0025	.0109	.1997	.3573	.4592			

MACH (1) = 2.001 ALPHA (2) = -5.801

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3245	.3576	.2262												
70.000	.3435	.3616	.2753												
80.000	.3561	.3626	.3066												
90.000			.3382	.2357	.0334	-.0133	-.0253	-.0482	-.0659	-.0891	-.0891	-.0950	.0000	-.0861	-.0873
100.000						-.0144	-.0340	-.0459	-.0659	-.0860	-.0976	-.1058	-.0910	-.0925	-.0792
110.000						-.0674	-.0747	-.0798	-.0768	-.0912	-.0971	-.0873	-.0794	-.0829	-.0698
120.000						.0077								-.0309	
130.000						-.0558								.0000	
140.000						-.0919								-.0101	
150.000						-.0720								-.0067	
160.000						-.0697								.0032	
170.000						-.0697								.0107	
180.000						-.0707	-.0240	.0032	.0261	.0281	.0331	.0306	.0244	.0154	.0075

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0732	-.0690	-.0561	-.0425	-.0138	.0023	.0000	.0000	.0251	.0323	.0462	.0469	.0417	.0383	.0317
100.000	-.0712	-.0685	-.0652	-.0539	-.0398	-.0195	.0015	.0134	.0216	.0166	.0333	.0360	.0387	.0422	.0350
110.000	-.0601	-.0591	-.0544	-.0536	-.0529	-.0445	-.0261	-.0065	.0060	.0129	.0169	.0194	.0251	.0278	.0319
120.000						-.0366								.0057	
130.000						-.0286								-.0075	
140.000						-.0196								-.0188	
150.000						-.0022								-.0194	
160.000						.0015								-.0196	
170.000						.0057								-.0211	
180.000	.0008	-.0037	.0030	.0035	.0047	.0045	-.0010	-.0073	-.0115	.0015	-.0108	-.0156	-.0183	-.0158	-.0221

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB001)

MACH (1) = 2.001 ALPHA (2) = -5.801

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0549		
70.000							.0514	.0440	.0000
80.000							.0633	.0237	.0047
90.000	.0159	-.0022	-.0053	-.0017	.0343	.0000	.0773	.0232	-.0121
100.000	.0321	.0131	.0054	.0340	.0882	.0940			
110.000	.0290	.0259	.0226	.1144	.1491	.0845			
120.000						.1762			
130.000						.3859			
140.000						.3652			
150.000						.3787			
160.000						.3640			
170.000						.3544			
180.000	-.0202	-.0223	-.0151	.1637	.3132	.4050			

MACH (1) = 2.008 ALPHA (3) = -3.694

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2878	.3210	.1936												
70.000	.3051	.3263	.2410												
80.000	.3148	.3327	.2696												
90.000			.3003	.2080	.0190	-.0250	-.0369	-.0588	-.0740	-.0952	-.0993	-.1063	.0000	-.1016	-.1075
100.000						-.0268	-.0420	-.0524	-.0730	-.0947	-.1070	-.1179	-.1098	-.1115	-.0983
110.000						-.0642	-.0735	-.0841	-.0851	-.1024	-.1119	-.1068	-.1026	-.1028	-.0865
120.000						-.0013								-.0535	
130.000						-.0694								.0000	
140.000						-.1143								-.0334	
150.000						-.0939								-.0284	
160.000						-.0913								-.0220	
170.000						-.0926								-.0146	
180.000						-.0926	-.0531	-.0209	-.0013	.0015	.0060	-.0012	-.0051	-.0101	-.0175

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0959	-.0897	-.0798	-.0874	-.0465	-.0272	.0000	.0000	-.0002	.0080	.0195	.0207	.0195	.0132	.0039
100.000	-.0894	-.0899	-.0813	-.0748	-.0634	-.0461	-.0314	-.0166	-.0020	-.0027	.0093	.0120	.0165	.0195	.0066
110.000	-.0800	-.0783	-.0711	-.0721	-.0706	-.0661	-.0556	-.0337	-.0193	-.0093	-.0017	.0008	.0073	.0105	.0078
120.000						-.0530								-.0113	
130.000						-.0475								-.0264	
140.000						-.0412								-.0380	
150.000						-.0279								-.0390	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB001)

MACH (1) = 2.006 ALPHA (3) = -3.694

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0234								-.0382	
170.000						-.0188								-.0420	
180.000	-.0218	-.0255	-.0173	-.0188	-.0178	-.0191	-.0218	-.0264	-.0314	-.0183	-.0312	-.0334	-.0374	-.0364	-.0439

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000									
70.000							.0264		
80.000							.0228	.0142	.0000
90.000	-.0090	-.0280	-.0295	-.0247	.0130	.0000	.0362	-.0006	-.0172
100.000	.0066	-.0088	-.0162	.0111	.0641	.0639	.0469	.0006	-.0309
110.000	.0068	.0044	.0020	.0890	.1224	.0572			
120.000						.1683			
130.000						.3603			
140.000						.3207			
150.000						.3235			
160.000						.3193			
170.000						.3121			
180.000	-.0377	-.0444	-.0340	.1157	.2746	.3603			

MACH (1) = 2.001 ALPHA (4) = -1.603

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2818	.2973	.1690												
70.000	.2791	.3055	.2095												
80.000	.2624	.3075	.2381												
90.000			.2679	.1770	.0025	-.0418	-.0517	-.0717	-.0838	-.1049	-.1100	-.1200	-.0900	-.1193	-.1287
100.000						-.0416	-.0550	-.0650	-.0843	-.1054	-.1167	-.1331	-.1252	-.1304	-.1208
110.000						-.0719	-.0807	-.0905	-.0953	-.1177	-.1259	-.1242	-.1203	-.1235	-.1159
120.000						-.0187								-.0855	
130.000						-.0873								-.0733	
140.000						-.1385								-.0565	
150.000						-.1207								-.0528	
160.000						-.1143								-.0466	
170.000						-.1159								-.0405	
180.000						-.1143	-.0745	-.0386	-.0219	-.0234	-.0154	-.0249	-.0303	-.0370	-.0444

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB001)

MACH (1) = 2.001 ALPHA (4) = - 503

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1195	-.1111	-.0988	-.0827	-.0614	-.0330	.0000	.0000	-.0238	-.0162	.0038	.0018	.0048	-.0010	-.0189
100.000	-.1128	-.1099	-.0985	-.0916	-.0775	-.0516	-.0499	-.0383	-.0253	-.0255	-.0062	-.0012	.0051	.0053	-.0124
110.000	-.0985	-.0973	-.0867	-.0876	-.0682	-.0797	-.0712	-.0519	-.0376	-.0278	-.0148	-.0102	-.0015	-.0020	-.0059
120.000						-.0713								-.0208	
130.000						-.0677								-.0338	
140.000						-.0616								-.0456	
150.000						-.0483								-.0499	
160.000						-.0443								-.0546	
170.000						-.0408								-.0616	
180.000	-.0454	-.0456	-.0362	-.0395	-.0370	-.0436	-.0481	-.0499	-.0549	-.0431	-.0529	-.0514	-.0576	-.0581	-.0642

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0102		
70.000							.0040	-.0066	.0000
80.000							.0104	-.0152	-.0353
90.000	-.0330	-.0505	-.0498	-.0510	-.0190	.0000	.0276	-.0140	-.0490
100.000	-.0143	-.0333	-.0373	-.0067	.0441	.0473			
110.000	-.0129	-.0162	-.0196	.0644	.1040	.0461			
120.000						.1743			
130.000						.3488			
140.000						.2890			
150.000						.2950			
160.000						.2869			
170.000						.2869			
180.000	-.0570	-.0637	-.0532	.1108	.2481	.3283			

MACH (1) = 2.000 ALPHA (5) = .509

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2633	.2643	.1414												
70.000	.2531	.2725	.1634												
80.000	.2464	.2795	.2077												
90.000			.2385	.1521	-.0105	-.0539	-.0672	-.0869	-.0962	-.1129	-.1193	-.1262	.0000	-.1312	-.1408
100.000						-.0521	-.0690	-.0816	-.0982	-.1147	-.1252	-.1386	-.1386	-.1425	-.1374
110.000						-.0763	-.0875	-.0982	-.1047	-.1260	-.1396	-.1383	-.1369	-.1381	-.1280
120.000						-.0267								-.1030	
130.000						-.0976								.0000	
140.000						-.1523								-.0806	
150.000						-.1369								-.0761	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8001)

MACH (1) = 2.000 ALPHA (9) = .509

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0675	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.1289								-.0675	
170.000						-.1322								-.0640	
160.000						-.1302	-.1003	-.0697	-.0528	-.0525	-.0487	-.0544	-.0569	-.0579	-.0649

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1344	-.1334	-.1246	-.1063	-.0855	-.0611	.0000	.0000	-.0405	-.0335	-.0254	-.0217	-.0222	-.0267	-.0405
100.000	-.1319	-.1337	-.1241	-.1147	-.1013	-.0752	-.0628	-.0493	-.0387	-.0415	-.0305	-.0282	-.0212	-.0207	-.0371
110.000	-.1231	-.1204	-.1090	-.1080	-.1048	-.0910	-.0806	-.0578	-.0453	-.0402	-.0382	-.0352	-.0277	-.0257	-.0290
120.000						-.0868								-.0407	
130.000						-.0886								-.0497	
140.000						-.0823								-.0630	
150.000						-.0716								-.0705	
160.000						-.0693								-.0733	
170.000						-.0643								-.0776	
180.000	-.0707	-.0712	-.0628	-.0626	-.0633	-.0648	-.0666	-.0698	-.0718	-.0613	-.0738	-.0751	-.0773	-.0726	-.0810

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0190		
70.000							-.0188	-.0334	.0000
80.000							-.0159	-.0487	-.0566
90.000	-.0539	-.0702	-.0702	-.0659	-.0355	.0000	-.0013	-.0403	-.0638
100.000	-.0374	-.0539	-.0597	-.0314	.0198	.0187			
110.000	-.0309	-.0367	-.0391	.0498	.0811	.0301			
120.000						.1486			
130.000						.3064			
140.000						.2390			
150.000						.2471			
160.000						.2438			
170.000						.2445			
180.000	-.0731	-.0731	-.0625	.1007	.2187	.2873			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB001)

MACH (1) = 2.001 ALPHA (6) = 2.584

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2371	.2495	.1260												
70.000	.2299	.2549	.1614												
80.000	.2227	.2628	.1868												
90.000			.2183	.1295	-.0231	-.0610	-.0794	-.0950	-.1080	-.1226	-.1296	-.1408	.0000	-.1417	-.1518
100.000						-.0589	-.0770	-.0911	-.1075	-.1244	-.1360	-.1511	-.1488	-.1554	-.1530
110.000						-.0804	-.0914	-.1032	-.1124	-.1367	-.1480	-.1483	-.1505	-.1547	-.1471
120.000						-.0343								-.1222	
130.000						-.1101								.0000	
140.000						-.1672								-.0993	
150.000						-.1541								-.0932	
160.000						-.1457								-.0895	
170.000						-.1467								-.0846	
180.000						-.1464	-.1178	-.0868	-.0747	-.0729	-.0724	-.0769	-.0789	-.0804	-.0858

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1468	-.1454	-.1274	-.1013	-.0752	-.0627	.0000	.0000	-.0519	-.0487	-.0399	-.0374	-.0352	-.0402	-.0540
100.000	-.1495	-.1508	-.1383	-.1166	-.0866	-.0654	-.0594	-.0519	-.0454	-.0514	-.0422	-.0414	-.0332	-.0332	-.0488
110.000	-.1424	-.1397	-.1284	-.1240	-.1092	-.0839	-.0659	-.0522	-.0504	-.0497	-.0497	-.0479	-.0384	-.0379	-.0435
120.000						-.1031								-.0504	
130.000						-.1052								-.0537	
140.000						-.0994								.0617	
150.000						-.0892								-.0687	
160.000						-.0857								-.0782	
170.000						-.0812								-.0879	
180.000	-.0880	-.0878	-.0799	-.0792	-.0807	-.0822	-.0844	-.0849	-.0882	-.0762	-.0867	-.0867	-.0897	-.0872	-.0891

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0370		
70.000							-.0355	-.0451	.0000
80.000							-.0207	-.0613	-.0814
90.000	-.0869	-.0829	-.0848	-.0796	-.0464	.0000	-.0126	-.0594	-.0883
100.000	-.0511	-.0876	-.0724	-.0490	.0031	.0053			
110.000	-.0490	-.0552	-.0554	.0166	.0490	.0058			
120.000						.1522			
130.000						.2656			
140.000						.1937			
150.000						.2006			
160.000						.2125			
170.000						.2175			
180.000	-.0800	-.0798	-.0864	.0956	.1975	.2583			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB001)

MACH (B) = 1.999 ALPHA (7) = 4.700

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2680	.2107	.1009												
70.000	.2483	.2164	.1341												
80.000	.2262	.2166	.1589												
90.000			.1864	.0998	-.0422	-.0765	-.0895	-.0964	-.1007	-.1157	-.1228	-.1325	.0000	-.1402	-.1534
100.000						-.0724	-.0847	-.0971	-.1066	-.1180	-.1281	-.1434	-.1475	-.1548	-.1561
110.000						-.0695	-.0971	-.1099	-.1185	-.1389	-.1455	-.1475	-.1539	-.1632	-.1565
120.000						-.0475								-.1426	
130.000						-.1269								.0000	
140.000						-.1858								-.1179	
150.000						-.1746								-.1138	
160.000						-.1650								-.1124	
170.000						-.1672								-.1184	
180.000						-.1644	-.1381	-.1114	-.0969	-.0966	-.0941	-.0952	-.1011	-.1077	-.1069

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1904	-.1507	-.1460	-.1409	-.1341	-.1275	.0000	.0000	-.0793	-.0667	-.0538	-.0495	-.0426	-.0456	-.0543
100.000	-.1553	-.1546	-.1480	-.1387	-.1309	-.1258	-.1260	-.1091	-.0835	-.0726	-.0557	-.0557	-.0436	-.0391	-.0519
110.000	-.1331	-.1490	-.1392	-.1346	-.1289	-.1233	-.1207	-.1155	-.0967	-.0781	-.0627	-.0590	-.0503	-.0471	-.0510
120.000						-.1099								-.0624	
130.000						-.1111								-.0709	
140.000						-.1071								-.0833	
150.000						-.1004								-.0915	
160.000						-.0979								-.0972	
170.000						-.0920								-.0997	
180.000	-.1089	-.1050	-.0940	-.0940	-.0928	-.0942	-.0969	-.1002	-.1004	-.0897	-.0964	-.0977	-.0982	-.0952	-.1003

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0620		
70.000							-.0489	-.0544	.0000
80.000							-.0228	-.0822	-.0878
90.000	-.0716	-.0898	-.0849	-.0956	-.0738	.0000	-.0024	-.0537	-.0935
100.000	-.0562	-.0740	-.0858	-.0531	-.0005	.0186			
110.000	-.0569	-.0819	-.0812	.0266	.0650	.0353			
120.000						.1274			
130.000						.2169			
140.000						.1524			
150.000						.1710			
160.000						.1656			
170.000						.1039			
180.000	-.0882	-.0878	-.0869	.0954	.1736	.2322			

DATE 26 MAR 76 TABULATED SOURCE DATA - IA29/0463

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (WZB001)

MACH (I) = 2.000 ALPHA (8) = 8.798

SECTION (1)068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2436	.1837	.0805												
70.000	.2177	.1694	.1094												
80.000	.2037	.1616	.1278												
90.000			.1510	.0717	-.0643	-.0994	-.1062	-.1098	-.1154	-.1314	-.1360	-.1464	.0000	-.1504	-.1627
100.000						-.0872	-.0970	-.1057	-.1161	-.1278	-.1418	-.1581	-.1587	-.1676	-.1648
110.000						-.0803	-.0988	-.1154	-.1264	-.1480	-.1607	-.1629	-.1707	-.1771	-.1761
120.000						-.0556								-.1668	
130.000						-.1364								.0000	
140.000						-.1980								-.1326	
150.000						-.1863								-.1269	
160.000						-.1751								-.1240	
170.000						-.1753								-.1211	
180.000						-.1745	-.1548	-.1294	-.1161	-.1166	-.1121	-.1149	-.1162	-.1169	-.1179

X/L	.4500	.4680	.4860	.5050	.5250	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1805	-.1629	-.1566	-.1463	-.1231	-.0947	.0000	.0000	-.0750	-.0668	-.0586	-.0554	-.0551	-.0606	-.0730
100.000	-.1688	-.1737	-.1666	-.1568	-.1380	-.1054	-.0890	-.0760	-.0673	-.0721	-.0648	-.0648	-.0571	-.0519	-.0677
110.000	-.1949	-.1708	-.1615	-.1541	-.1446	-.1235	-.1011	-.0815	-.0716	-.0728	-.0728	-.0745	-.0661	-.0633	-.0665
120.000						-.1316								-.0760	
130.000						-.1309								-.0762	
140.000						-.1282								-.0810	
150.000						-.1178								-.0844	
160.000						-.1138								-.0919	
170.000						-.1096								-.0996	
180.000	-.1191	-.1162	-.1086	-.1096	-.1067	-.1103	-.1121	-.1128	-.1128	-.1029	-.1115	-.1095	-.1073	-.0941	-.0912

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0921		
70.000							-.0734	-.0757	.0000
80.000							-.0424	-.0781	-.0985
90.000	-.0841	-.1043	-.1037	-.1105	-.1093	.0000	-.0213	-.0648	-.0973
100.000	-.0675	-.0865	-.0981	-.0920	-.0421	.0055			
110.000	-.0854	-.0707	-.0858	-.0255	.0638	.0437			
120.000						.2193			
130.000						.2429			
140.000						.0966			
150.000						.1358			
160.000						.1631			
170.000						.1664			
180.000	-.0815	-.0715	-.0302	.1033	.1572	.2103			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE0001)

MACH (1) = 1.997 ALPHA (9) = 8.925

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2285	.1700	.0614												
70.000	.997	.1727	.0892												
80.000	.1787	.1602	.1086												
90.000			.1346	.0427	-.0824	-.1121	-.1241	-.1296	-.1335	-.1484	-.1510	-.1591	.0000	-.1621	-.1753
100.000						-.0986	-.1124	-.1187	-.1296	-.1423	-.1538	-.1682	-.1719	-.1790	-.1851
110.000						-.0892	-.1103	-.1248	-.1352	-.1573	-.1695	-.1763	-.1848	-.1910	-.1958
120.000						-.0643								-.1971	
130.000						-.1525								.0000	
140.000						-.2219								-.1499	
150.000						-.2054								-.1459	
160.000						-.1927								-.1365	
170.000						-.1932								-.1333	
180.000						-.1929	-.1662	-.1423	-.1312	-.1314	-.1312	-.1311	-.1331	-.1316	-.1367

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1719	-.1652	-.1445	-.1208	-.0945	-.0910	.0000	.0000	-.0776	-.0793	-.0719	-.0674	-.0670	-.0689	-.0801
100.000	-.1892	-.1853	-.1750	-.1472	-.1164	-.0935	-.0855	-.0821	-.0719	-.0850	-.0784	-.0776	-.0660	-.0630	-.0753
110.000	-.1965	-.1896	-.1831	-.1667	-.1359	-.1047	-.0883	-.0833	-.0843	-.0[illegible]	-.0910	-.0900	-.0796	-.0749	-.0784
120.000						-.1330								-.0942	
130.000						-.1423								-.0880	
140.000						-.1426								-.0883	
150.000						-.1339								-.0875	
160.000						-.1292								-.0880	
170.000						-.1257								-.0898	
180.000	-.1367	-.1330	-.1252	-.1252	-.1247	-.1269	-.1267	-.1269	-.1304	-.1237	-.1210	-.1128	-.0989	-.0893	-.0761

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1139		
70.000							-.0940	-.0937	.0000
80.000							-.0610	-.0921	-.1153
90.000	-.0922	-.1097	-.1097	-.1239	-.1284	.0000	-.03[illegible]	-.0812	-.1120
100.000	-.0777	-.0964	-.1028	-.1083	-.0713	-.0089			
110.000	-.0782	-.0926	-.0988	-.0422	.0453	.0352			
120.000						.2267			
130.000						.2599			
140.000						.0653			
150.000						.1201			
160.000						.1575			
170.000						.1597			
180.000	-.0723	-.0563	-.0213	.0673	.1531	.2100			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB002) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.000

MACH (1) = 1.750 ALPHA (1) = -8.365

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4065	.4080	.2543												
70.000	.4356	.4182	.3274												
80.000	.4466	.4264	.3973												
90.000			.4169	.1900	-.0306	-.0792	-.5227	-.5450	-.5606	-.5838	-.5796	-.5742	.0000	-.1072	-.0787
100.000						-.0772	-.5316	-.5401	-.5573	-.5780	-.5816	-.5800	-.1151	-.1142	-.0885
110.000						-.1419	-.5760	-.5798	-.5713	-.5740	-.5651	-.1157	-.1048	-.1057	-.0875
120.000						-.0471								-.0408	
130.000						-.0972								.0000	
140.000						-.1080								-.0144	
150.000						-.0816								-.0052	
160.000						-.0712								.0079	
170.000						-.0665								.0147	
180.000						-.0571	-.4264	-.3996	-.3850	-.3953	-.3889	.0335	.0285	.0231	.0236

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0142	-.4134	-.3919	-.3822	-.3682	-.3680	.0000	.0000	.0774	.0899	-.3318	-.3310	-.3435	-.3523	.0647
100.000	-.0630	-.4452	-.4089	-.3869	-.3744	-.3738	.0582	.0578	.0655	.0625	-.3484	-.3465	-.3443	-.3480	.0610
110.000	-.5039	-.4792	-.4512	-.4149	-.3979	-.3975	.0388	.0406	.0388	.0408	-.3872	-.3861	-.3721	-.3738	.0508
120.000						-.4477								-.3945	
130.000						-.0286								-.4080	
140.000						-.0179								-.4156	
150.000						.0095								-.4173	
160.000						.0158								-.4199	
170.000						.0257								-.4352	
180.000	-.4102	-.4087	-.3979	-.4007	-.4005	.0242	.0125	.0019	-.0071	.0138	-.4419	-.4434	-.4395	-.4321	.0112

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3017		
70.000							-.3271	-.3358	.0000
80.000							-.3379	-.3833	-.3952
90.000	.0391	.0339	.0345	.0541	.1103	.0000	-.3366	-.4058	-.4296
100.000	.0601	.0442	.0469	.1039	.1535	-.2650			
110.000	.0424	.0438	.0657	.1896	-.2160	-.2873			
120.000						-.2474			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.750 ALPHA (1) = -8.365

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.0055			
140.000						.0445			
150.000						.0674			
160.000						.0523			
170.000						.0525			
180.000	.0153	.0259	.0756	.3710	.0073	.0918			

MACH (1) = 1.751 ALPHA (2) = -6.351

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3581	.3588	.2131												
70.000	.3952	.3702	.2711												
80.000	.4086	.3767	.3424												
90.000			.3855	.1803	-.0404	-.0906	-.1011	-.1243	-.1406	-.1629	-.1617	-.1582	.0000	-.1290	-.1162
100.000						-.0913	-.1107	-.1216	-.1390	-.1595	-.1662	-.1649	-.1354	-.1354	-.1119
110.000						-.1475	-.1513	-.1566	-.1519	-.1611	-.1537	-.1372	-.1252	-.1247	-.1039
120.000						-.0643								-.0654	
130.000						-.1211								.0000	
140.000						-.1390								-.0386	
150.000						-.1142								-.0326	
160.000						-.1051								-.0204	
170.000						-.1029								-.0135	
180.000						-.0982	-.0304	-.0003	.0148	.0077	.0122	.0053	-.0019	-.0047	-.0045

X/L	.4300	.4480	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0800	-.0141	.0128	.0249	.0337	.0350	.0000	.0000	.0475	.0561	.0731	.0712	.0628	.0514	.0376
100.000	-.0930	-.0593	-.0064	.0195	.0331	.0307	.0301	.0292	.0359	.0348	.0557	.0606	.0617	.0574	.0335
110.000	-.0906	-.0756	-.0501	-.0105	.0146	.0180	.0191	.0191	.0152	.0187	.0247	.0275	.0376	.0395	.0327
120.000						-.0411								.0154	
130.000						-.0507								.0002	
140.000						-.0422								-.0059	
150.000						-.0178								-.0080	
160.000						-.0131								-.0163	
170.000						-.0037								-.0298	
180.000	-.0081	-.0071	.0066	-.0007	-.0026	-.0061	-.0157	-.0272	-.0370	-.0161	-.0363	-.0381	-.0346	-.0268	-.0163

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8002)

MACH (1) = 1.751 ALPHA (2) = -6.351

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0878		
70.000							.0694	.0589	.0000
80.000							.0622	.0203	.0074
90.000	.0131	.0068	.0068	.0228	.0818	.0000	.0680	.0031	-.0235
100.000	.0296	.0168	.0205	.0730	.1219	.1343			
110.000	.0250	.0236	.0494	.1634	.1882	.1225			
120.000						.1787			
130.000						.4064			
140.000						.4283			
150.000						.4461			
160.000						.4316			
170.000						.4329			
180.000	-.0090	.0020	.0471	.3268	.3928	.4733			

MACH (1) = 1.751 ALPHA (3) = -4.224

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3347	.3207	.1748												
70.000	.3694	.3365	.2254												
80.000	.3759	.3438	.2791												
90.000			.3444	.1651	-.0500	-.1011	-.1149	-.1376	-.1517	-.1737	-.1726	-.1760	.0000	-.1523	-.1459
100.000						-.1011	-.1225	-.1332	-.1528	-.1726	-.1831	-.1853	-.1603	-.1581	-.1350
110.000						-.1477	-.1577	-.1628	-.1630	-.1787	-.1787	-.1581	-.1444	-.1444	-.1232
120.000						-.0770								-.0861	
130.000						-.1421								.0000	
140.000						-.1687								-.0600	
150.000						-.1421								-.0540	
160.000						-.1332								-.0495	
170.000						-.1314								-.0407	
180.000						-.1272	-.0661	-.0333	-.0168	-.0250	-.0212	-.0244	-.0291	-.0253	-.0351

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1026	-.0593	-.0139	-.0030	.0049	.0068	.0000	.0000	.0176	.0305	.0458	.0477	.0378	.0281	.0147
100.000	-.1174	-.0945	-.0424	-.0058	.0045	.0032	.0020	.0030	.0107	.0098	.0294	.0346	.0383	.0348	.0151
110.000	-.1112	-.1026	-.0812	-.0379	-.0103	-.0058	-.0011	-.0030	-.0054	-.0017	.0041	.0074	.0197	.0204	.0149
120.000						-.0637								-.0067	
130.000						-.0719								-.0205	
140.000						-.0636								-.0289	
150.000						-.0446								-.0335	

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.751 ALPHA (3) = -4.224

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0403								-.0427	
170.000						-.0340								-.0509	
180.000	-.0371	-.0315	-.0199	-.0289	-.0317	-.0351	-.0414	-.0507	-.0592	-.0442	-.0638	-.0649	-.0588	-.0518	-.0387

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0529		
70.000							.0384	.0244	.0000
80.000							.0328	-.0071	-.0192
90.000	-.0063	-.0148	-.0169	.0043	.0556	.0091	.0388	-.0182	-.0462
100.000	.0077	-.0040	.0010	.0550	.0976	.1035			
110.000	.0085	.0079	.0308	.1413	.1646	.1051			
120.000						.1795			
130.000						.3846			
140.000						.3813			
150.000						.3896			
160.000						.3801			
170.000						.3829			
180.000	-.0325	-.0210	.0389	.2857	.3474	.4174			

MACH (1) = 1.751 ALPHA (4) = -2.072

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3058	.2870	.1434												
70.000	.3363	.2996	.1883												
80.000	.3404	.3136	.2306												
90.000			.2883	.1480	-.0636	-.1124	-.1258	-.1475	-.1632	-.1859	-.1859	-.1932	.0000	-.1773	-.1716
100.000						-.1122	-.1306	-.1439	-.1655	-.1852	-.1961	-.2045	-.1801	-.1825	-.1592
110.000						-.1481	-.1593	-.1708	-.1752	-.1952	-.2003	-.1825	-.1690	-.1680	-.1396
120.000						-.0907								-.1079	
130.000						-.1615								.0000	
140.000						-.1974								-.0773	
150.000						-.1701								-.0731	
160.000						-.1610								-.0658	
170.000						-.1599								-.0550	
180.000						-.1566	-.0956	-.0648	-.0523	-.0574	-.0532	-.0466	-.0505	-.0509	-.0507

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8002)

MACH (1) = 1.751 ALPHA (4) = -2.072

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4550	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1345	-.0779	-.0338	-.0242	-.0155	-.0227	.0000	.0000	-.0038	.0105	.0263	.0281	.0169	.0079	-.0094
100.000	-.1422	-.1150	-.0603	-.0283	-.0157	-.0225	-.0257	-.0257	-.0125	-.0118	.0131	.0189	.0186	.0154	-.0079
110.000	-.1229	-.1159	-.1001	-.0684	-.0355	-.0274	-.0231	-.0253	-.0229	-.0190	-.0092	-.0032	.0090	.0083	-.0005
120.000						-.0850								-.0192	
130.000						-.0963								-.0402	
140.000						-.0907								-.0515	
150.000						-.0723								-.0560	
160.000						-.0681								-.0636	
170.000						-.0632								-.0757	
180.000	-.0562	-.0571	-.0500	-.0562	-.0594	-.0636	-.0727	-.0807	-.0857	-.0710	-.0829	-.0820	-.0820	-.0738	-.0592

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0233		
70.000							.0105	-.0087	.0000
80.000							.0041	-.0370	-.0493
90.000	-.0278	-.0389	-.0439	-.0232	.0346	.0000	.0074	-.0435	-.0695
100.000	-.0141	-.0230	-.0230	.0341	.0779	.0693			
110.000	-.0110	-.0137	.0066	.1098	.1369	.0876			
120.000						.1770			
130.000						.3677			
140.000						.3388			
150.000						.3451			
160.000						.3340			
170.000						.3371			
180.000	-.0505	-.0387	.0417	.2561	.3131	.3669			

MACH (1) = 1.750 ALPHA (5) = .034

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2807	.2605	.1156												
70.000	.3075	.2695	.1653												
80.000	.3094	.2771	.1994												
90.000			.2445	.1351	-.0762	-.1243	-.1395	-.1594	-.1710	-.1907	-.1891	-.1927	.0000	-.1777	-.1796
100.000						-.1248	-.1412	-.1550	-.1743	-.1927	-.2013	-.2098	-.1851	-.1851	-.1589
110.000						-.1545	-.1652	-.1785	-.1845	-.2060	-.2111	-.1964	-.1819	-.1775	-.1421
120.000						-.1039								-.1197	
130.000						-.1811								.0000	
140.000						-.2241								-.0890	
150.000						-.1989								-.0816	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.750 ALPHA (5) = .034

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.1887								-.0805	
170.000						-.1875								-.0749	
160.000						-.1847	-.1279	-.0925	-.0807	-.0845	-.0783	-.0609	-.0643	-.0694	-.0784

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1581	-.1390	-.1009	-.0670	-.0414	-.0372	.0000	.0000	-.0211	-.0103	.0053	.0044	-.0044	-.0161	-.0292
100.000	-.1457	-.1420	-.1250	-.0932	-.0525	-.0397	-.0367	-.0339	-.0250	-.0315	-.0077	-.0096	-.0079	-.0057	-.0267
110.000	-.1224	-.1267	-.1182	-.1152	-.0922	-.0532	-.0395	-.0371	-.0343	-.0328	-.0244	-.0196	-.0131	-.0112	-.0182
120.000						-.1037								-.0503	
130.000						-.1105								-.0493	
140.000						-.1082								-.0579	
150.000						-.0956								-.0687	
160.000						-.0963								-.0749	
170.000						-.0906								-.0800	
180.000	-.0834	-.0893	-.0789	-.0843	-.0845	-.0930	-.0986	-.1034	-.1054	-.0885	-.1017	-.0986	-.0897	-.0833	-.0739

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0032		
70.000							-.0133	-.0315	.0000
80.000							-.0241	-.0597	-.0679
90.000	-.0515	-.0563	-.0835	-.0489	.0079	.0000	-.0137	-.0609	-.0874
100.000	-.0335	-.0441	-.0451	.0114	.0556	.0475			
110.000	-.0308	-.0352	-.0039	.0956	.1087	.0590			
120.000						.1683			
130.000						.3448			
140.000						.2911			
150.000						.2907			
160.000						.2844			
170.000						.2911			
180.000	-.0669	-.0493	.0875	.2317	.2796	.3152			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.748 ALPHA (6) = 2.118

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2628	.2292	.1012												
70.000	.2705	.2431	.1421												
80.000	.2735	.2463	.1687												
90.000			.2101	.1331	-.0799	-.1256	-.1333	-.1466	-.1571	-.1810	-.1845	-.1939	.0000	-.1895	-.1901
100.000						-.1234	-.1404	-.1509	-.1637	-.1797	-.1903	-.2076	-.1952	-.1984	-.1756
110.000						-.1473	-.1653	-.1748	-.1757	-.1987	-.2058	-.1969	-.1871	-.1850	-.1569
120.000						-.1021								-.1258	
130.000						-.1883								.0000	
140.000						-.2355								-.1041	
150.000						-.2112								-.1026	
160.000						-.2001								-.1004	
170.000						-.2018								-.0989	
180.000						-.1970	-.1442	-.1074	-.0903	-.0877	-.0848	-.0900	-.0930	-.0934	-.1015

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1729	-.1674	-.1495	-.1235	-.0792	-.0517	.0000	.0000	-.0359	-.0252	-.0178	-.0111	-.0187	-.0256	-.0439
100.000	-.1646	-.1683	-.1536	-.1414	-.1093	-.0645	-.0527	-.0456	-.0350	-.0359	-.0267	-.0183	-.0144	-.0174	-.0385
110.000	-.1538	-.1551	-.1451	-.1457	-.1353	-.1050	-.0750	-.0512	-.0413	-.0389	-.0388	-.0349	-.0178	-.0211	-.0323
120.000						-.1321								-.0429	
130.000						-.1328								-.0544	
140.000						-.1276								-.0681	
150.000						-.1151								-.0804	
160.000						-.1112								-.0910	
170.000						-.1082								-.1059	
180.000	-.1125	-.1120	-.1009	-.1078	-.1056	-.1097	-.1114	-.1116	-.1116	-.0982	-.1168	-.1163	-.1137	-.1016	-.0892

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0189		
70.000							-.0329	-.0408	.0000
80.000							-.0199	-.0704	-.0896
90.000	-.0840	-.0704	-.0733	-.0856	.0010	.0000	-.0052	-.0783	-.1103
100.000	-.0484	-.0575	-.0507	.0016	.0574	.0518			
110.000	-.0443	-.0470	-.0168	.0802	.0929	.0537			
120.000						.1761			
130.000						.2996			
140.000						.2476			
150.000						.2403			
160.000						.2403			
170.000						.2483			
180.000	-.0755	-.0573	.1032	.2100	.2413	.2700			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (EB002)

MACH (1) = 1.749 ALPHA (7) = 4.222

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2399	.1970	.0757												
70.000	.2416	.2100	.1102												
80.000	.2422	.2155	.1345												
90.000			.1719	.0976	-.0894	-.1322	-.1431	-.1556	-.1662	-.1667	-.1874	-.1991	.0000	-.1951	-.2033
100.000						-.1237	-.1411	-.1519	-.1675	-.1845	-.1949	-.2136	-.2038	-.2114	-.1972
110.000						-.1461	-.1523	-.1645	-.1746	-.2046	-.2125	-.2110	-.2046	-.2063	-.1847
120.000						-.1584								-.1548	
130.000						-.2059								.0000	
140.000						-.2562								-.1329	
150.000						-.2324								-.1267	
160.000						-.2170								-.1308	
170.000						-.2125								-.1327	
180.000						-.2148	-.1514	-.1171	-.1102	-.1164	-.1186	-.1172	-.1221	-.1264	-.1302

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6881	.7100
PHI															
90.000	-.1900	-.1789	-.1524	-.1149	-.0785	-.0645	.0000	.0000	-.0586	-.0505	-.0305	-.0196	-.0297	-.0342	-.0556
100.000	-.1668	-.1836	-.1658	-.1457	-.1030	-.0685	-.0631	-.0620	-.0558	-.0672	-.0452	-.0329	-.0262	-.0241	-.0509
110.000	-.1734	-.1713	-.1590	-.1533	-.1276	-.0861	-.0666	-.0638	-.0631	-.0638	-.0579	-.0508	-.0340	-.0335	-.0478
120.000						-.1357								-.0581	
130.000						-.1448								-.0665	
140.000						-.1415								-.0723	
150.000						-.1314								-.0813	
160.000						-.1271								-.0861	
170.000						-.1241								-.0921	
180.000	-.1312	-.1302	-.1221	-.1264	-.1247	-.1262	-.1280	-.1318	-.1301	-.1157	-.1231	-.1154	-.1035	-.0897	-.0751

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0507		
70.000							-.0534	-.0565	.0000
80.000							-.0330	-.0814	-.1032
90.000	-.0784	-.0840	-.0912	-.1064	-.0570	.0000	-.0155	-.0795	-.1203
100.000	-.0556	-.0741	-.0770	-.0628	.0273	.0423			
110.000	-.0504	-.0675	-.0511	.0632	.1091	.0683			
120.000						.2071			
130.000						.2882			
140.000						.1919			
150.000						.2017			
160.000						.2101			
170.000						.2212			
180.000	-.0892	-.0268	.1227	.1820	.2144	.2285			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.751 ALPHA (8) = 6.322

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2221	.1777	.0702												
70.000	.2138	.1658	.0936												
80.000	.2074	.1684	.1141												
90.000			.1465	.0591	-.0880	-.1348	-.1459	-.1594	-.1695	-.1925	-.1967	-.2068	.0000	-.1983	-.2100
100.000						-.1273	-.1377	-.1556	-.1722	-.1905	-.2044	-.2234	-.2134	-.2206	-.2153
110.000						-.1385	-.1492	-.1655	-.1788	-.2106	-.2238	-.2210	-.2236	-.2281	-.2109
120.000						-.0977								-.1856	
130.000						-.2112								.0000	
140.000						-.2681								-.1525	
150.000						-.2390								-.1472	
160.000						-.2226								-.1483	
170.000						-.2224								-.1481	
180.000						-.2193	-.1660	-.1435	-.1379	-.1468	-.1457	-.1389	-.1409	-.1462	-.1472

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2011	-.1870	-.1437	-.0964	-.0813	-.0784	.0000	.0000	-.0719	-.0659	-.0373	-.0327	-.0416	-.0506	-.0690
100.000	-.2075	-.2036	-.1709	-.1140	-.0790	-.0741	-.0728	-.0745	-.0698	-.0847	-.0554	-.0442	-.0345	-.0373	-.0624
110.000	-.2015	-.1940	-.1751	-.1467	-.0945	-.0773	-.0745	-.0754	-.0763	-.0801	-.0737	-.0653	-.0470	-.0461	-.0616
120.000						-.1146								-.0759	
130.000						-.1463								-.0761	
140.000						-.1515								-.0793	
150.000						-.1428								-.0800	
160.000						-.1374								-.0780	
170.000						-.1359								-.0811	
180.000	-.1469	-.1437	-.1335	-.1363	-.1378	-.1374	-.1390	-.1398	-.1385	-.1206	-.1197	-.1039	-.0897	-.0761	-.0664

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0805		
70.000							-.0801	-.0797	.0000
80.000							-.0517	-.0999	-.1228
90.000	-.0919	-.0966	-.1063	-.1230	-.0981	.0000	-.0327	-.0933	-.1337
100.000	-.0707	-.0647	-.0933	-.0971	.0029	.0271			
110.000	-.0633	-.0820	-.0715	.0234	.0961	.0570			
120.000						.2287			
130.000						.3055			
140.000						.1456			
150.000						.1808			
160.000						.1974			
170.000						.2044			
180.000	-.0808	-.0153	.1128	.1726	.2078	.2113			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB002)

MACH (1) = 1.748 ALPHA (9) = 8.447

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2094	.1587	.0463												
90.000	.1937	.1627	.0739												
91.000	.1797	.1589	.0976												
98.000			.1324	.0374	-.0940	-.1413	-.1580	-.1731	-.1845	-.2058	-.2098	-.2190	.0000	-.2135	-.2211
100.000						-.1394	-.1545	-.1681	-.1857	-.2034	-.2166	-.2353	-.2295	-.2392	-.2
110.000						-.1494	-.1646	-.1826	-.1929	-.2210	-.2379	-.2398	-.2449	-.2527	-.2466
120.000						-.1139								-.2293	
130.000						-.2269								.0000	
140.000						-.3010								-.1780	
150.000						-.2751								-.1707	
160.000						-.2563								-.1707	
170.000						-.2556								-.1737	
180.000						-.2497	-.1940	-.1679	-.1622	-.1694	-.1668	-.1618	-.1652	-.1669	-.1643

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7
PHI															
90.000	-.1988	-.1353	-.1106	-.1020	-.0927	-.0950	.0000	.0000	-.0778	-.0650	-.0391	-.0421	-.0509	-.0505	-.0773
100.000	-.2289	-.1934	-.1368	-.1028	-.0870	-.0897	-.0913	-.0900	-.0795	-.0862	-.0599	-.0494	-.0453	-.0466	-.0720
110.000	-.2332	-.2058	-.1518	-.1051	-.0919	-.0982	-.0920	-.0918	-.0926	-.0905	-.0847	-.0723	-.0562	-.0571	-.0730
120.000						-.1005								-.0873	
130.000						-.1198								-.0783	
140.000						-.1428								-.0749	
150.000						-.1507								-.0712	
160.000						-.1552								-.0659	
170.000						-.1541								-.0693	
180.000	-.1640	-.1398	-.1518	-.1509	-.1505	-.1548	-.1576	-.1554	-.1492	-.1143	-.1021	-.0843	-.0719	-.0644	-.0528

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.9 20	.9000	.9400
PHI									
80.000							-.1058		
90.000							-.0994	-.1013	.0000
95.000							-.0732	-.1181	-.1396
98.000	-.0937	-.1077	-.1226	-.1431	-.1300	.0000	-.0509	-.1058	-.1445
100.000	-.0816	-.0911	-.1142	-.1253	-.0296	.0040			
110.000	-.0823	- 0954	-.0995	-.0038	.0787	.0452			
120.000						.2325			
130.000						.2987			
140.000						.1198			
150.000						.1711			
160.000						.1982			
170.000						.2010			
180.000	-.0532	-.0026	.1030	.1600	.2041	.2065			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003) (17 OCT 93)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .602 ALPHA (1) = -8.542

SECTION (1) SB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0984	-.1273	-.2979												
70.000	-.0011	-.1214	-.2282												
80.000	.0637	-.1333	-.2637												
90.000			-.3620	-.4277	-.4241	-.2663	-.1675	-.1383	-.0966	-.1022	-.0572	-.0506	.0000	-.0224	-.0390
100.000						-.3081	-.2352	-.1636	-.1229	-.0766	-.0631	-.0690	-.0387	-.0500	-.0377
110.000						-.4764	-.2950	-.2171	-.1268	-.0900	-.0602	-.0702	-.0510	-.0663	-.0142
120.000						-.2578								-.0487	
130.000						-.2598								.0000	
140.000						-.2476								-.0361	
150.000						-.1851								-.0312	
160.000						-.1940								-.0540	
170.000						-.1881								-.0276	
180.000						-.1565	-.1235	-.1262	-.0946	-.0779	-.0496	-.0559	-.0136	-.0071	-.0097

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0118	-.0046	-.0010	.0176	.0291	.0415	.0000	.0000	.0634	.0543	.0218	-.0076	-.0169	-.0308	-.0168
100.000	-.0097	-.0118	-.0241	.0029	.0202	.0166	.0369	.0481	.0654	.0209	.0071	-.0093	-.0334	-.0059	-.0276
110.000	-.0160	-.0189	-.0150	-.0092	.0006	.0189	.0343	.0481	.0265	.0399	.0029	-.0069	-.0053	-.0142	.0229
120.000						-.0069								.0281	
130.000						-.0187								.0336	
140.000						-.0157								.0279	
150.000						.0268								.0601	
160.000						.0298								.0601	
170.000						.0177								.0513	
180.000	-.0187	-.0219	-.0245	.0045	.0114	.0324	.0154	.0147	.0088	.0291	.0352	.0114	.0539	.0670	.1245

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0125		
70.000							-.0283	-.0463	.0000
80.000							-.0636	-.1034	-.0712
90.000	-.0585	.0748	-.0156	-.0434	-.0576	.0000	-.0662	-.0734	-.0936
100.000	-.0017	-.0039	-.0017	-.0197	-.0522	-.0734			
110.000	.0199	.0295	.0304	.0216	-.0958	-.1862			
120.000						-.3608			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .852 ALPHA (1) = -8.342

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.1476			
140.000						.0318			
150.000						.1586			
160.000						.1912			
170.000						.2556			
180.000	.1553	.1919	.2518	.2916	.3370	.4343			

MACH (1) = .598 ALPHA (2) = -8.372

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0719	-.1105	-.2430												
70.000	.0028	-.0681	-.2073												
80.000	.0556	-.1545	-.2285												
90.000			-.3220	-.4105	-.4164	-.2467	-.1729	-.1481	-.0986	-.1137	-.0907	-.0778	.0000	-.0240	-.0450
100.000						-.2866	-.2366	-.1762	-.1267	-.1085	-.0788	-.0894	-.0561	-.0594	-.0371
110.000						-.4293	-.3017	-.2280	-.1561	-.1145	-.0890	-.0535	-.0391	-.0682	-.0378
120.000						-.2539								-.0535	
130.000						-.2536								.0000	
140.000						-.2493								-.0564	
150.000						-.1945								-.0574	
160.000						-.1898								-.0653	
170.000						-.1968								-.0561	
180.000						-.1675	-.1564	-.1501	-.1138	-.1045	-.0722	-.0643	-.0460	-.0492	-.0221

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0132	-.0087	-.0008	.0018	.0103	.0189	.0000	.0500	.0248	-.0042	.0021	-.0418	-.0644	-.0624	-.0501
100.000	-.0414	-.0384	-.0302	-.0123	.0166	.0074	.0133	.0113	.0120	-.0112	-.0172	-.0358	-.0471	-.0424	-.0451
110.000	-.0211	-.0316	-.0155	-.0165	-.0035	-.0060	.0011	.0116	.0169	.0038	-.0042	-.0125	-.0238	-.0232	-.0232
120.000						-.0073								.0164	
130.000						-.0232								.0169	
140.000						-.0255								.0320	
150.000						.0041								.0350	
160.000						-.0049								.0514	
170.000						.0238								.0419	
180.000	-.0301	-.0263	-.0260	-.0181	.0038	-.0909	-.0075	-.0119	.0031	-.0082	.0031	.0139	.0205	.0531	.0807

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE0003)

MACH (1) = .598 ALPHA (2) = -6.372

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0177		
90.000							-.0567	-.0723	.0000
95.000							-.0767	-.1084	-.0919
99.000	-.0514	.0958	-.0403	-.0339	-.0720	.0000	-.0773	-.1119	-.1059
105.000	-.0362	-.0203	-.0209	-.0175	-.0780	-.0964			
110.000	-.0041	.0041	.0155	-.0076	-.0656	-.2.10			
120.000						-.3535			
130.000						-.1376			
140.000						.0237			
150.000						.1054			
160.000						.1654			
170.000						.2341			
180.000	.1150	.1654	.2070	.2489	.3097	.4001			

MACH (1) = .595 ALPHA (3) = -4.359

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0720	-.1118	-.2414												
90.000	.0079	-.0930	-.2127												
95.000	.0410	-.1425	-.2184												
98.000			-.2012	-.3855	-.4186	-.2471	-.1709	-.1375	-.1054	-.1238	-.0924	-.0897	.0000	-.0508	-.0707
100.000						-.2709	-.2174	-.1826	-.1211	-.1011	-.0753	-.0931	-.0634	-.0825	-.0637
110.000						-.3832	-.2842	-.2144	-.1442	-.1057	-.0870	-.0631	-.0644	-.0806	-.0511
120.000						-.2511								-.0597	
130.000						-.2889								.0000	
140.000						-.2635								-.0789	
150.000						-.2187								-.0779	
160.000						-.2020								-.0813	
170.000						-.2107								-.1006	
180.000						-.1933	-.1559	-.1509	-.1265	-.1265	-.0880	-.0872	-.0627	-.0654	-.0475

X/L	.4500	.4680	.4800	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0523	-.0239	-.0086	.0010	.0096	-.0020	.0000	.0000	-.0142	-.0371	-.0345	-.0668	-.0877	-.0843	-.0812
100.000	-.0581	-.0361	-.0275	-.0189	-.0033	-.0189	-.0253	-.0206	-.0068	-.0526	-.0234	-.0645	.0749	-.0591	-.0738
110.000	-.0872	-.0278	-.0196	-.0219	-.0135	-.0146	-.0226	-.0216	-.0162	-.0226	-.0231	-.0399	-.0372	-.0419	-.0433
120.000						-.0119								-.0076	
130.000						-.0391								55	
140.000						-.0449								161	
150.000						-.0183								.0209	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REd003)

MACH (1) = .595 ALPHA (3) = -4.359

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0186								.0309	
170.000						-.0125								.0289	
180.000	-.0374	-.0431	-.0268	-.0325	-.0186	-.0193	-.0331	-.0337	-.0331	-.0260	-.0016	.0065	.0239	.0375	.0669

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0250		
70.000							-.0568	-.0767	.0000
80.000							-.0696	-.1136	-.0934
90.000	-.0934	.0277	-.0638	-.0725	-.0824	.0000	-.0866	-.1123	-.1107
100.000	-.0603	-.0282	-.0305	-.0356	-.0786	-.1017			
110.000	-.0182	-.0022	.0080	-.0096	-.0[illegible]	-.1981			
120.000						-.3182			
130.000						-.13[illegible]			
140.000						-.0009			
150.000						.0879			
160.000						.1450			
170.000						.2225			
180.000	.0685	.1396	.1896	.2330	.3009	.3784			

MACH (1) = .601 ALPHA (4) = -2.195

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	[illegible]	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0701	-.1070	-.2442												
70.000	.0082	-.0399	-.2064												
80.000	.0184	-.1267	-.2080												
90.000			-.2741	-.4008	-.4334	-.2672	-.1935	-.1586	-.1290	-.1346	-.1053	-.1004	.0000	-.0547	-.0661
100.000						-.2807	-.2300	-.1875	-.1415	-.1102	-.0911	-.1007	-.0694	-.0922	-.0534
110.000						-.3709	-.2813	-.2257	-.1553	-.1263	-.0941	-.0609	-.0671	-.0739	-.0531
120.000						-.2659								-.0557	
130.000						-.3268								.0000	
140.000						-.2995								-.0788	
150.000						-.2603								-.0915	
160.000						-.2340								-.0759	
170.000						-.2379								-.0743	
180.000						-.2248	-.1790	-.1665	.1464	-.1375	-.0971	-.1036	-.0599	-.0625	-.0518

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .601 ALPHA (4) = -2.195

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6380	.7100
PHI															
90.000	-.0364	-.0466	-.0365	-.0192	-.0192	-.0296	.0000	.0000	-.0345	-.0580	-.0802	-.1159	-.1490	-.1338	-.1078
100.000	-.0576	-.0544	-.0459	-.0417	-.0277	-.0280	-.0378	-.0362	-.0285	-.0756	-.0735	-.0914	-.1189	-.1013	-.1103
110.000	-.0521	-.0479	-.0453	-.0381	-.0381	-.0427	-.0319	-.0282	-.0246	-.0441	-.0712	-.0868	-.0768	-.0811	-.0743
120.000						-.0322								-.0371	
130.000						-.0444								-.0189	
140.000						-.0570								-.0083	
150.000						-.0305								-.0080	
160.000						-.0275								.0115	
170.000						-.0262								-.0004	
180.000	-.0612	-.0528	-.0534	-.0495	-.0339	-.0262	-.0338	-.0415	-.0332	-.0391	-.0166	-.0196	-.0139	.0036	.0581

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0378		
70.000							-.0643	-.0763	.0000
80.000							-.0877	-.1016	-.0921
90.000	-.1239	.0114	-.0771	-.0765	-.0876	.0000	-.0871	-.1102	-.0969
100.000	-.0740	-.0515	-.0414	-.0411	-.0809	-.1079			
110.000	-.0439	-.0126	.0013	-.0016	-.0864	-.2053			
120.000						-.2973			
130.000						-.1203			
140.000						-.0245			
150.000						.0611			
160.000						.1180			
170.000						.1921			
180.000	.0738	.1253	.1758	.2223	.2640	.3258			

MACH (1) = .600 ALPHA (5) = -.127

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0832	-.1141	-.2326												
70.000	-.0012	-.0840	-.2052												
80.000	.0071	-.1296	-.2058												
90.000			-.2534	-.3838	-.4303	-.2702	-.1929	-.1516	-.1242	-.1434	-.1087	-.1038	.0000	-.0610	-.0891
100.000						-.2801	-.2312	-.1982	-.1374	-.1117	-.1002	-.1124	-.0855	-.1101	-.0786
110.000						-.3511	-.2770	-.2265	-.1520	-.1173	-.1058	-.0822	-.0731	-.0921	-.0708
120.000						-.2702								-.0701	
130.000						-.3521								.0000	
140.000						-.3220								-.0894	
150.000						-.2669								-.0852	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .600 ALPHA (5) = -.127

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2570								-.0894	
170.000						-.2550								-.0885	
180.000						-.2379	-.1916	-.1671	-.1500	-.1450	-.1005	-.1058	-.0852	-.0744	-.0593

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0518	-.0505	-.0403	-.0433	-.0273	-.0459	.0000	.0000	-.0637	-.0939	-.1002	-.1424	-.1680	-.1670	-.1297
100.000	-.0790	-.0780	-.0613	-.0603	-.0367	-.0541	-.0667	-.0643	-.0573	-.1045	-.0956	-.1291	-.1378	-.1275	-.1370
110.000	-.0554	-.0538	-.0495	-.0570	-.0506	-.0629	-.0530	-.0447	-.0610	-.0633	-.0816	-.1059	-.1016	-.1055	-.0885
120.000						-.0475								-.0511	
130.000						-.0534								-.0255	
140.000						-.0633								-.0008	
150.000						-.0374								-.0072	
160.000						-.0477								.0048	
170.000						-.0341								-.0095	
180.000	-.0626	-.0547	-.0505	-.0544	-.0508	-.0451	-.0424	-.0524	-.0544	-.0497	-.0371	-.0261	-.0198	-.0016	.0382

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0427		
70.000							-.0636	-.0696	.0000
80.000							-.0817	-.1103	-.0820
90.000	-.1595	-.0085	-.0904	-.0910	-.0901	.0000	-.0861	-.1106	-.1026
100.000	-.1081	-.0688	-.0504	-.0425	-.0910	-.1137			
110.000	-.0701	-.0225	.0076	-.0028	-.0804	-.1858			
120.000						-.2702			
130.000						-.1058			
140.000						-.0379			
150.000						.0431			
160.000						.1039			
170.000						.1682			
180.000	.0548	.1063	.1567	.1938	.2425	.2961			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .600 ALPHA (6) = 1.924

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0739	-.1010	-.2256												
70.000	-.0925	-.0755	-.1932												
80.000	-.0059	-.1215	-.2021												
90.000			-.2434	-.3819	-.4236	-.2755	-.2007	-.1683	-.1419	-.1547	-.1333	-.1105	.0000	-.0748	-.0944
100.000						-.2894	-.2317	-.2059	-.1574	-.1277	-.1022	-.1227	-.0869	-.1101	-.0797
110.000						-.3419	-.2819	-.2360	-.1703	-.1382	-.1171	-.0902	-.0813	-.1059	-.0793
120.000						-.2795								-.0728	
130.000						-.3786								.0000	
140.000						-.3588								-.0928	
150.000						-.3013								-.0977	
160.000						-.2795								-.0872	
170.000						-.2742								-.0931	
180.000						-.2534	-.2059	-.1848	-.1630	-.1435	-.1052	-.1114	-.0852	-.0728	-.0685

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0672	-.0663	-.0624	-.0607	-.0525	-.0653	.0000	.0000	-.0901	-.1180	-.1426	-.1858	-.2124	-.2051	-.1599
100.000	-.0807	-.0804	-.0745	-.0683	-.0630	-.0729	-.0748	-.0817	-.0761	-.1376	-.1359	-.1712	-.1768	-.1615	-.1586
110.000	-.0771	-.0725	-.0722	-.0666	-.0781	-.0928	-.0787	-.0748	-.0827	-.1014	-.1173	-.1339	-.1339	-.1383	-.1215
120.000						-.0660								-.0694	
130.000						-.0648								-.0494	
140.000						-.0674								-.0285	
150.000						-.0448								-.0381	
160.000						-.0491								-.0112	
170.000						-.0519								-.0245	
180.000	-.0722	-.0833	-.0696	-.0673	-.0545	-.0475	-.0528	-.0611	-.0601	-.0618	-.0528	-.0474	-.0378	-.0238	.0185

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0429		
70.000							-.0804	-.0686	.0000
80.000							-.0845	-.1032	-.0737
90.000	-.1863	-.0243	-.1050	-.1018	-.1012	.0000	-.0924	-.1137	-.0982
100.000	-.1294	-.0894	-.0653	-.0542	-.0951	-.1229			
110.000	-.0935	-.0437	-.0002	-.0024	-.0740	-.1941			
120.000						-.2471			
130.000						-.0988			
140.000						-.0632			
150.000						.0126			
160.000						.0370			
170.000						.1470			
180.000	.0463	.0929	.1390	.1699	.2173	.2829			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .398 ALPHA (7) = 4.049

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0702	-.1056	-.1998												
70.000	-.0171	-.0851	-.1763												
80.000	-.0151	-.1342	-.2055												
90.000			-.2350	-.3729	-.4399	-.2688	-.1984	-.1739	-.1351	-.1593	-.1407	-.1232	.0000	-.0892	-.1009
100.000						-.2791	-.2365	-.2020	-.1570	-.1268	-.1112	-.1308	-.1076	-.1204	-.0921
110.000						-.3345	-.2842	-.2408	-.1822	-.1424	-.1162	-.0997	-.1023	-.1296	-.1015
120.000						-.2973								-.1010	
130.000						-.4038								.0000	
140.000						-.3772								-.1003	
150.000						-.3050								-.0967	
160.000						-.2831								-.1016	
170.000						-.2774								-.1056	
180.000						-.2668	-.2140	-.1848	-.1566	-.1424	-.1185	-.1158	-.0898	-.0875	-.0721

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5810	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0701	-.0829	-.0776	-.0757	-.0727	-.0845	.0000	.0000	-.1246	-.1656	-.1756	-.2123	-.2380	-.2377	-.1972
100.000	-.0977	-.0914	-.0957	-.0816	-.0661	-.1026	-.0933	-.1109	-.1119	-.1623	-.1530	-.1943	-.1983	-.1896	-.1796
110.000	-.0855	-.0862	-.0694	-.0898	-.0993	-.1062	-.1026	-.0966	-.1079	-.1213	-.1523	-.1760	-.1670	-.1640	-.1382
120.000						-.0750								-.0823	
130.000						-.0806								-.0602	
140.000						-.0799								-.0459	
150.000						-.0599								-.0256	
160.000						-.0599								-.0372	
170.000						-.0562								-.0356	
180.000	-.0770	-.0897	-.0691	-.0652	-.0619	-.0613	-.0659	-.0723	-.0709	-.0716	-.0622	-.0599	-.0436	-.0216	.0207

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0248		
70.000							-.0589	-.0576	.0000
80.000							-.0751	-.1032	-.0701
90.000	-.2102	-.0515	-.1143	-.1038	-.1131	.0000	-.0806	-.0943	-.0914
100.000	-.1580	-.1070	-.0726	-.0627	-.0987	-.1095			
110.000	-.1060	-.0551	-.0066	-.0152	-.0678	-.1770			
120.000						-.2108			
130.000						-.0895			
140.000						-.0914			
150.000						.0120			
160.000						.0737			
170.000						.1202			
180.000	.0447	.0782	.1108	.1386	.2106	.2485			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = .399 ALPHA (8) = 6.091

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0837	-.1009	-.1918												
70.000	-.0149	-.0880	-.1908												
80.000	-.0291	-.1028	-.1819												
90.000			-.2130	-.3685	-.4230	-.2696	-.2119	-.1792	-.1426	-.1683	-.1481	-.1445	.0000	-.0939	-.1238
100.000						-.2778	-.2400	-.2093	-.1653	-.1445	-.1325	-.1484	-.1116	-.1385	-.1057
110.000						-.3192	-.2797	-.2555	-.1864	-.1630	-.1421	-.1228	-.1195	-.1339	-.1149
120.000						-.3092								-.1018	
130.000						-.4303								.0000	
140.000						-.3939								-.0966	
150.000						-.3205								-.1008	
160.000						-.2930								-.0979	
170.000						-.2791								-.0936	
180.000						-.2613	-.2225	-.2030	-.1676	-.1530	-.1259	-.1038	-.0759	-.0844	-.0762

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0766	-.0926	-.0838	-.0759	-.0864	-.1041	.0000	.0000	-.1362	-.1978	-.2051	-.2597	-.2713	-.2634	-.2246
100.000	-.1018	-.1126	-.1264	-.0982	-.0959	-.1254	-.1292	-.1332	-.1259	-.1938	-.1768	-.2327	-.2444	-.2114	-.2005
110.000	-.1041	-.1028	-.0897	-.1058	-.1025	-.1198	-.1229	-.1222	-.1362	-.1555	-.1771	-.2028	-.1898	-.1864	-.1531
120.000						-.0976								-.1015	
130.000						-.1062								-.0729	
140.000						-.0719								-.0583	
150.000						-.0736								-.0566	
160.000						-.0633								-.0463	
170.000						-.0676								-.0436	
180.000	-.0727	-.0818	-.0835	-.0763	-.0684	-.0553	-.0633	-.0799	-.0743	-.0719	-.0739	-.0809	-.0563	-.0363	.0181

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0153		
70.000							-.0646	-.3442	.0000
80.000							-.0805	-.0945	-.0624
90.000	-.2399	-.0524	-.1185	-.1020	-.0969	.0000	-.0805	-.1011	-.0802
100.000	-.1623	-.1147	-.0702	-.0390	-.0791	-.1151			
110.000	-.1236	-.0524	-.0123	.0023	-.0620	-.1733			
120.000						-.1815			
130.000						-.0779			
140.000						-.1027			
150.000						-.0052			
160.000						.0618			
170.000						.1155			
180.000	.0273	.0702	.1106	.1390	.2004	.2550			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - II SG. VEHICLE (RE8003)

MACH (1) = .800 ALPHA (9) = 8.229

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0896	-.1045	-.1990												
70.000	-.0219	-.0860	-.1772												
80.000	-.0638	-.1200	-.1791												
90.000			-.2006	-.3631	-.4385	-.2792	-.1986	-.1844	-.1599	-.1854	-.1457	-.1497	.0000	-.1120	-.1287
100.000						-.2882	-.2494	-.2174	-.1669	-.1371	-.1487	-.1629	-.1362	-.1669	-.1234
110.000						-.3294	-.2686	-.2534	-.1979	-.1761	-.1510	-.1434	-.1342	-.1594	-.1231
120.000						-.3304								-.1309	
130.000						-.4500								.0000	
140.000						-.4147								-.1065	
150.000						-.3375								-.1178	
160.000						-.2938								-.1048	
170.000						-.2974								-.1057	
180.000						-.2650	-.2263	-.2006	-.1622	-.1515	-.1087	-.0989	-.0963	-.0855	-.0783

X/L	.4300	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6900	.7100
F I															
90.000	-.1120	-.0959	-.0969	-.0910	-.0904	-.1221	.0000	.0000	-.1826	-.2185	-.2289	-.2875	-.3104	-.2964	-.2415
100.000	-.1185	-.1398	-.1329	-.1172	-.1140	-.1336	-.1570	-.1597	-.1590	-.2265	-.2166	-.2492	-.2765	-.2330	-.2320
110.000	-.1094	-.1221	-.1123	-.1405	-.1215	-.1428	-.1388	-.1514	-.1537	-.2019	-.1987	-.2319	-.2067	-.2030	-.1866
120.000						-.1149								-.1298	
130.000						-.1221								-.0866	
140.000						-.0972								.0820	
150.000						-.0809								-.0563	
160.000						-.0749								-.0547	
170.000						-.0762								-.0520	
180.000	-.0806	-.0753	-.0819	-.0776	-.0652	-.0713	-.0849	-.0902	-.1042	-.0935	-.0834	-.0756	-.0537	-.0387	-.0002

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI							-.0249		
60.000							-.0544	-.0341	.0000
70.000							-.0718	-.1055	-.0528
80.000							-.0868	-.1010	-.0776
90.000	-.2530	-.0840	-.1231	-.1063	-.1069	.0000			
100.000	-.1822	-.1250	-.0795	-.0583	-.0767	-.1020			
110.000	-.1387	-.0555	-.0116	-.0047	-.0607	-.1582			
120.000						-.1493			
130.000						-.0858			
140.000						-.1204			
150.000						-.0296			
160.000						.0652			
170.000						.1046			
180.000	.0049	.0537	.0969	.1420	.1904	.2941			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB004) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
LREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
AILRON = .000 RUDDER = .000
PN/L = 4.000

MACH (1) = .751 ALPHA (1) = -8.432

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0554	-.1267	-.3223												
70.000	.0210	-.1088	-.2793												
80.000	.0864	-.1570	-.2536												
90.000			-.2411	-.5309	-.5146	-.2727	-.1970	-.1403	-.1038	-.0897	-.0649	-.0692	.0003	-.0167	-.0316
100.000						-.3108	-.2477	-.1791	-.1398	-.0918	-.0718	-.0524	-.0309	-.0526	-.0269
110.000						-.4939	-.3443	-.2498	-.1511	-.0948	-.0729	-.0480	-.0463	-.0487	-.0368
120.000						-.2765								-.0470	
130.000						-.2522								.0000	
140.000						-.2245								-.0613	
150.000						-.1873								-.0540	
160.000						-.1526								-.0468	
170.000						-.1247								-.0276	
180.000						-.1756	-.1521	-.1299	-.1224	-.1031	-.0668	-.0578	-.0171	-.0314	-.0190

X/L	.4550	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6800	.7100
PHI															
90.000	.0083	-.0059	.0065	.0379	.0536	.0581	.0000	.0091	.0762	.0414	.0447	.0106	-.0053	-.0143	-.0044
100.000	-.0145	-.0138	-.0052	.0177	.0306	.0341	.0407	.0445	.0487	.0165	.0269	.0083	-.0031	-.0041	-.0247
110.000	-.0150	-.0077	.0055	.0140	.0287	.0280	.0417	.0325	.0442	.0482	.0224	.0087	.0121	.0099	.0202
120.000						.0182								.0269	
130.000						.0014								.0459	
140.000						-.0083								.0501	
150.000						.0301								.0639	
160.000						.0231								.0647	
170.000						.0299								.0670	
180.000	-.0243	-.0045	-.0087	.0014	.0095	.0419	.0212	.0007	.0071	.0250	.0456	.0405	.0630	.0806	.1156

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0350		
70.000							-.0720	-.0846	.0000
80.000							-.0994	-.1420	-.1073
90.000	-.0263	.0785	-.0379	-.0542	-.0626	.0009	-.0855	-.1182	-.1146
100.000	.0008	.0063	.0031	-.0214	-.0553	-.1953			
110.000	.0412	.0418	.0387	.0056	-.0883	-.2311			
120.000						-.4183			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8004)

MACH (1) = .751 ALPHA (1) = -6.432

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.1458			
140.000						.0824			
150.000						.1826			
160.000						.2292			
170.000						.2931			
180.000	.1473	.2105	.2607	.3104	.3751	.4647			

MACH (1) = .751 ALPHA (2) = -6.353

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0522	-.1301	-.3156												
70.000	.0151	-.1012	-.2909												
80.000	.0691	-.1607	-.2886												
90.000			-.2750	-.5335	-.5206	-.2796	-.2185	-.1531	-.1173	-.1024	-.0831	-.0671	.0000	-.0209	-.0424
100.000						-.3267	-.2436	-.1927	-.1378	-.1053	-.0624	-.0808	-.0555	-.0743	-.0286
110.000						-.4853	-.3291	-.2398	-.1616	-.1093	-.0647	-.0590	-.0487	-.0716	-.0471
120.000						-.2864								-.0615	
130.000						-.3053								.0000	
140.000						-.2780								-.0604	
150.000						-.2375								-.0599	
160.000						-.2215								-.0716	
170.000						-.2125								-.0622	
180.000						-.1843	-.1594	-.1347	-.1163	-.1109	-.0746	-.0821	-.0421	-.0424	-.0300

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.636[illegible]	.6540	.6730	.6880	.7100
PHI															
90.000	-.0094	-.0181	-.0010	.0111	.0379	.0335	.0000	.0000	.0400	.0165	[illegible]	-.0240	.0622	-.0[illegible]	-.0426
100.000	-.0291	-.0319	-.0139	.0074	.0205	.0128	.0175	.0248	.0287	-.0067	-.0[illegible]	.0381	-.0[illegible]	-.0[illegible]	-.0533
110.000	-.0284	-.0251	-.0211	.0029	-.0020	.0062	.0123	.0327	.0280	.0283	.0[illegible]	.0[illegible]	-.0[illegible]	-.0[illegible]	-.0224
120.000						.0038								.0[illegible]	
130.000						-.0185								.0[illegible]	
140.000						-.0245								.0278	
150.000						.0017								.0[illegible]	
160.000						-.0002								.0[illegible]	
170.000						.0090								.0[illegible]	
180.000	-.0274	-.0319	-.0298	-.0186	.0046	.0071	-.0083	-.0150	.0036	-.0[illegible]	.0[illegible]	.0[illegible]	.0[illegible]	.0[illegible]	.0[illegible]

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .751 ALPHA (2) = -6.353

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0361		
70.000							-.0780	-.0916	.0000
80.000							-.0957	-.1222	-.1084
90.000	-.0786	.0484	-.0381	-.0727	-.0827	.0000	-.0986	-.1295	-.1163
100.000	-.0317	-.0227	-.0243	-.0227	-.0952	-.1333			
110.000	.0151	.0111	.0243	.0032	-.0964	-.2326			
120.000						-.4044			
130.000						-.1399			
140.000						.0505			
150.000						.1373			
160.000						.1884			
170.000						.2607			
180.000	.1249	.1735	.2248	.2799	.3449	.4219			

MACH (1) = .750 ALPHA (3) = -4.245

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0809	-.1206	-.3083												
70.000	.0264	-.0966	-.2555												
80.000	.0341	-.1398	-.2628												
90.000			-.3369	-.5166	-.5232	-.2854	-.2042	-.1587	-.1273	-.1396	-.0985	-.0941	.0000	-.0446	-.0626
100.000						-.3166	-.2506	-.1980	-.1443	-.1094	-.0974	-.0901	-.0511	-.0747	-.0551
110.000						-.4409	-.3169	-.2339	-.1606	-.1226	-.0905	-.0733	-.0574	-.0750	-.0579
120.000						-.2911								-.0600	
130.000						-.3128								.0000	
140.000						-.3005								-.0764	
150.000						-.2642								-.0747	
160.000						-.2394								-.0754	
170.000						-.2219								-.0668	
180.000						-.2014	-.1660	-.1558	-.1364	-.1280	-.0976	-.0885	-.0539	-.0560	-.0460

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0291	-.0268	-.0189	-.0114	.0017	.0010	.0000	.0000	.0089	-.0208	-.0416	-.0806	-.1117	-.1141	-.0913
100.000	-.0462	-.0397	-.0338	-.0243	-.0023	-.0128	-.0013	.0020	.0068	-.0377	-.0340	-.0706	-.0927	-.0789	-.0817
110.000	-.0406	-.0392	-.0308	-.0299	-.0175	-.0147	-.0087	.0030	-.0015	-.0113	-.0295	-.0502	-.0499	-.0606	-.0513
120.000						-.0135								-.0248	
130.000						-.0372								-.0091	
140.000						-.0386								.0023	
150.000						-.0125								.0064	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .750 ALPHA (3) = -4.245

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0167								.0129	
170.000						-.0091								.0120	
160.000	-.0519	-.0446	-.0465	-.0364	-.0313	-.0106	-.0220	-.0224	-.0274	-.0227	-.0117	-.0110	.0011	.0221	.0745

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0619		
70.000							-.0910	-.0860	.0000
60.000							-.1060	-.1355	-.1060
90.000	-.1088	.0339	-.0579	-.0817	-.1056	.0000	-.1135	-.1282	-.1144
100.000	-.0809	-.0347	-.0404	-.0461	-.1072	-.1471			
110.000	-.0243	-.0014	.0120	-.0107	-.1135	-.2544			
120.000						-.3790			
130.000						-.1321			
140.000						.0132			
150.000						.1006			
160.000						.1568			
170.000						.2379			
180.000	.1027	.1579	.2053	.2524	.3094	.3737			

MACH (1) = .751 ALPHA (4) = -2.165

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1300	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.0371	-.1217	-.2954												
70.000	.0218	-.0868	-.2417												
80.000	.0237	-.1304	-.2518												
90.000			-.3018	-.3055	-.3333	-.2919	-.2016	-.1615	-.1285	-.1424	-.1[illegible]	-.0951	.0000	-.0674	-.0776
100.000						-.3065	-.2478	-.1962	-.1448	-.1151	-.0924	-.0771	-.0737	-.0898	-.0669
110.000						-.4170	-.3027	-.2348	-.1641	-.1257	-.0946	-.0730	-.0628	-.0851	-.0642
120.000						-.2907								-.0666	
130.000						-.3350								-.0000	
140.000						-.3202								-.0834	
150.000						-.2775								-.0857	
160.000						-.2575								-.0863	
170.000						-.2492								-.0863	
180.000						-.2146	-.1710	-.1566	-.1413	-.1267	-.1[illegible]	-.1015	-.0686	-.0640	-.0577

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .751 ALPHA (4) = -2.165

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0475	-.0405	-.0313	-.0213	-.0104	-.0255	.0000	.0000	-.0277	-.0526	-.0793	-.1165	-.1479	-.1484	-.1316
100.000	-.0645	-.0554	-.0479	-.0386	-.0152	-.0353	-.0317	-.0286	-.0222	-.0730	-.0714	-.1032	-.1334	-.1173	-.1275
110.000	-.0524	-.0435	-.0334	-.0255	-.0297	-.0248	-.0289	-.0213	-.0272	-.0405	-.0707	-.0899	-.0821	-.0971	-.0873
120.000						-.0325								-.0429	
130.000						-.0448								-.0244	
140.000						-.0607								-.0151	
150.000						-.0272								-.0128	
160.000						-.0301								-.0049	
170.000						-.0289								-.0014	
180.000	-.0587	-.0512	-.0486	-.0482	-.0381	-.0296	-.0332	-.0419	-.0460	-.0457	-.0311	-.0349	-.0151	.0046	.0534

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0534		
70.000							-.0911	-.0872	.0000
80.000							-.1126	-.1249	-.0990
90.000	-.1513	.0645	-.0950	-.1075	-.1143	.0000	-.1253	-.1362	-.1140
100.000	-.1003	-.0572	-.0538	-.0554	-.1214	-.1602			
110.000	-.0551	-.0216	.0002	-.0173	-.1072	-.2496			
120.000						-.3362			
130.000						-.1226			
140.000						-.0038			
150.000						.0778			
160.000						.1352			
170.000						.1992			
180.000	.0878	.1298	.1773	.2219	.2778	.3395			

MACH (1) = .751 ALPHA (5) = .000

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0859	-.1191	-.2332												
70.000	.0140	-.0854	-.2220												
80.000	.0123	-.1094	-.2373												
90.000			-.2867	-.4930	-.9344	-.3002	-.2083	-.1815	-.1457	-.1488	-.1279	-.1140	.0000	-.0728	-.0878
100.000						-.3105	-.2518	-.2048	-.1340	-.1326	-.1046	-.1102	-.0864	-.1008	-.0796
110.000						-.4075	-.2979	-.2516	-.1711	-.1302	-.1097	-.0857	-.0764	-.1004	-.0745
120.000						-.3034								-.0752	
130.000						-.3975								.0000	
140.000						-.3770								-.0850	
150.000						-.3246								-.0981	

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .751 ALPHA (5) = .000

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4210
PHI															
180.000						-.3345								-.0850	
170.000						-.3124								-.0901	
160.000						-.3027	-.1871	-.1521	-.1340	-.1304	-.0973	-.0943	-.0701	-.0640	-.0673

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0528	-.0561	-.0545	-.0579	-.0264	-.0437	[illegible]	[illegible]	[illegible]	-.0875	-.1304	-.1735	-.1974	-.2012	[illegible]
100.000	-.0756	-.0753	-.0605	-.0523	[illegible]	-.0467	-.0535	[illegible]	[illegible]	-.1121	[illegible]	-.1543	-.1631	-.1688	[illegible]
110.000	-.0575	-.0647	-.0519	-.0509	[illegible]	-.0558	-.0438	-.0547	-.0634	-.0675	-.1074	-.1036	-.1261	-.1304	-.1144
120.000						-.0586								-.0775	
130.000						-.0619								-.0557	
140.000						-.0709								[illegible]	
150.000						-.0400								[illegible]	
160.000						-.0545								-.0333	
170.000						[illegible]								.0185	
180.000	-.0670	-.0619	-.0586	-.0675	-.0484	-.0536	-.0557	-.0433	-.0686	-.0621	-.0507	-.0480	-.0343	-.0325	.0264

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0648		
70.000							[illegible]	[illegible]	[illegible]
80.000							[illegible]	-.1329	[illegible]
90.000	-.1956	-.0190	-.1193	-.1256	-.1273	.0000	[illegible]	[illegible]	[illegible]
100.000	-.1322	-.1005	-.0743	-.0752	-.1300	-.1592			
110.000	-.0808	-.0444	-.0118	-.0186	-.1096	-.2531			
120.000						-.3120			
130.000						-.1220			
140.000						-.0258			
150.000						.0491			
160.000						[illegible] 82			
170.000						.678			
180.000	.0488	.1100	.1525	.1997	.2519	.3119			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (FEB004)

MACH (X) = .751 ALPHA ([illegible] = 2.051

SECTION (1)CRB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2040	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
85.000	-.0882	-.1222	-.2624												
90.000	-.0983	-.0779	-.2219												
95.000	-.0159	-.1175	-.2134												
98.000			-.2794	-.4701	-.5585	-.3122	-.2092	-.1720	-.1459	-.1494	-.1186	-.1174	.0000	-.0788	-.0089
100.000						-.3258	-.2493	-.2050	-.1558	-.1325	-.1113	-.1242	-.0989	-.1204	-.0907
110.000						-.3433	-.2966	-.2384	-.1739	-.1334	-.1115	-.1019	-.0779	-.1047	-.0788
120.000						-.3291								-.0865	
130.000						-.4459								.0000	
135.000						-.4247								-.1061	
140.000						-.4148								-.0975	
150.000						-.4391								-.1003	
160.000						-.4550								-.0868	
170.000						-.4101	-.2358	-.1424	-.1176	-.1122	-.0828	-.1001	-.0769	-.0711	-.0730
180.000															

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0895	-.0850	-.0552	-.0465	-.0372	-.0543	.0000	.0000	-.0866	-.1215	-.1388	-.1953	-.2468	-.2319	-.2040
100.000	-.0789	-.0769	-.0708	-.0540	-.0443	-.0615	-.0709	-.0752	-.0711	-.1461	-.1327	-.1792	-.2093	-.1861	-.2020
110.000	-.0656	-.0629	-.0699	-.0547	-.0[illegible]3	-.0611	-.0666	-.0716	-.0821	-.0920	-.1322	-.1685	-.1640	-.1683	-.1553
120.000						-.0556								-.0914	
130.000						-.0764								-.0626	
140.000						-.0618								-.0591	
150.000						-.0598								-.0418	
160.000						-.0571								-.0349	
170.000						-.0467								-.0494	
180.000	-.0855	-.0801	-.0831	-.0845	-.0568	-.0624	-.0757	-.0773	-.0797	-.0738	-.0603	-.0581	-.0491	-.0306	.0027

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0013		
85.000							-.0883	-.0743	.0000
90.000							-.1074	-.1[illegible]9	-.0945
95.000	-.2183	-.0404	-.1367	-.1206	-.1431	.0000	-.1266	-.12[illegible]5	-.1053
100.000	-.1814	-.1216	-.0989	-.0[illegible]3	-.[illegible]61	-.1620			
110.000	-.1247	-.0575	-.0228	-.0[illegible]6	-.[illegible]24	-.2211			
120.000						-.2007			
130.000						-.1119			
140.000						-.[illegible]41			
150.000						.0203			
160.000						.0936			
170.000						[illegible]			
180.000	.0294	.0825	12[illegible]3	.1667	.2253	.2984			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .752 ALPHA (7) = 4.180

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0828	-.1154	-.2395												
70.000	-.0144	-.0713	-.2075												
80.000	-.0271	-.1171	-.2043												
90.000			-.2357	-.4644	-.5484	-.3163	-.2277	-.2010	-.1540	-.1744	-.1341	-.1341	.0000	-.0855	-.1086
100.000						-.3250	-.2697	-.2282	-.1719	-.1371	-.1315	-.1320	-.0976	-.1214	-.0920
110.000						-.3922	-.3136	-.2570	-.2014	-.1540	-.1298	-.1090	-.0981	-.1221	-.0915
120.000						-.3455								-.0934	
130.000						-.4792								.0000	
140.000						-.4930								-.0955	
150.000						-.4894								-.0971	
160.000						-.5261								-.0901	
170.000						-.5560								-.0827	
180.000						-.5273	-.3225	-.1934	-.1296	-.1139	-.0907	-.0846	-.0578	-.0624	-.0587

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7110
PHI															
90.000	-.0687	-.0799	-.0664	-.0631	-.0554	-.0759	.0000	.0000	-.1126	-.1611	-.1845	-.2510	-.2974	-.2976	-.2362
100.000	-.0897	-.0981	-.0908	-.0780	-.0680	-.0897	-.0925	-.0953	-.0925	-.1803	-.1722	-.2349	-.2465	-.2391	-.2258
110.000	-.0771	-.0824	-.0783	-.0801	-.0752	-.1008	-.0903	-.0939	-.1074	-.1310	-.1774	-.2003	-.2[illegible]	-.2126	-.1913
120.000						-.0724								-.1230	
130.000						-.0823								-.1014	
140.000						-.0811								-.0768	
150.000						-.0657								-.0752	
160.000						-.0605								-.0645	
170.000						-.0596								-.0700	
180.000	-.0759	-.0620	-.0678	-.0724	-.0701	-.0515	-.0754	-.0835	-.0865	-.0950	-.0820	-.0851	-.0754	-.0472	.0015

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0549		
70.000							-.0829	-.0825	.0000
80.000							-.1073	-.1177	-.0906
90.000	-.2602	-.0555	-.1483	-.1434	-.1465	.0000	-.1128	-.1322	-.0963
100.000	-.1897	-.1452	-.1059	-.0889	-.1337	-.1709			
110.000	-.1499	-.0770	-.0415	-.0315	-.1046	-.2285			
120.000						-.2613			
130.000						-.0956			
140.000						-.0804			
150.000						.0003			
160.000						.0782			
170.000						.1213			
180.000	.0130	.0648	.1146	.1402	.1981	.2929			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63 (REB004)

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE

MACH (1) = .752 ALPHA (8) = 6.380

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.0811	-.1089	-.2138												
70.000	-.0161	-.0755	-.1981												
80.000	-.0266	-.1114	-.1908												
90.000			-.2230	-.4469	-.5543	-.3033	-.2310	-.1986	-.1612	-.1671	-.1513	-.1415	.0000	-.0930	-.1177
100.000						-.3322	-.2784	-.2413	-.1866	-.1652	-.1309	-.1553	-.1175	-.1417	-.1102
110.000						-.3672	-.3172	-.2829	-.2098	-.1680	-.1415	-.1252	-.1093	-.1303	-.1123
120.000						-.3821								-.1049	
130.000						-.5132								.0000	
140.000						-.5358								-.1065	
150.000						-.5596								-.0911	
160.000						-.6085								-.0967	
170.000						-.6204								-.0748	
180.000						-.6245	-.4052	-.2599	-.1445	-.1100	-.0846	-.0823	-.0674	-.0655	-.0585

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0862	-.0877	-.0851	-.0725	-.0613	-.0980	.0000	.0000	-.1306	-.1967	-.2302	-.2930	-.3416	-.3534	-.2776
100.000	-.1077	-.1206	-.1085	-.1003	-.0826	-.1096	-.1062	-.1273	-.1249	-.2064	-.2072	-.2854	-.3060	-.2892	-.2704
110.000	-.1003	-.0926	-.0919	-.1026	-.1019	-.1152	-.1145	-.1150	-.1330	-.1720	-.2075	-.2473	-.2385	-.2425	-.1890
120.000						-.0961								-.1482	
130.000						-.1039								-.1234	
140.000						-.1050								-.0935	
150.000						-.0672								-.1025	
160.000						-.0863								-.0812	
170.000						-.0686								-.0802	
180.000	-.0869	-.0779	-.0753	-.0816	-.0623	-.0596	-.0975	-.0998	-.0996	-.1098	-.0997	-.1001	-.0871	-.0722	-.0216

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0493		
70.000							-.0891	-.0640	.0000
80.000							-.0990	-.1053	-.0730
90.000	-.3131	-.0774	-.1599	-.1355	-.1434	.0000	-.1148	-.1130	-.0938
100.000	-.2286	-.1578	-.1111	-.0646	-.1361	-.1485			
110.000	-.1673	-.0975	-.0220	-.0259	-.1151	-.2288			
120.000						-.2356			
130.000						-.1058			
140.000						-.1053			
150.000						-.0063			
160.000						.0603			
170.000						.1093			
180.000	-.0015	.0464	.0917	.1328	.1849	.2791			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (1) = .792 ALPHA (9) = 8.462

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0969	-.1105	-.2178												
70.000	-.0360	-.0759	-.1734												
80.000	-.0527	-.1152	-.1877												
90.000			-.2004	-.4469	-.5502	-.3287	-.2398	-.2104	-.1855	-.2045	-.1660	-.1522	.0000	-.1090	-.1323
100.000						-.3240	-.2797	-.2545	-.1963	-.1682	-.1494	-.1588	-.1260	-.1428	-.1214
110.000						-.3818	-.3299	-.2975	-.2318	-.1804	-.1529	-.1410	-.1181	-.1668	-.1265
120.000						-.3995								-.1195	
130.000						-.5660								.0000	
140.000						-.5650								-.1067	
150.000						-.6260								-.1088	
160.000						-.6376								-.0855	
170.000						-.6804								-.0846	
180.000						-.6894	-.4767	-.2693	-.1679	-.1125	-.0724	-.0762	-.0715	-.0680	-.0564

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7170
PHI															
90.000	-.0930	-.1090	-.0934	-.0976	-.0846	-.1116	.0000	.0000	-.1812	-.2325	-.2662	-.3427	-.3953	-.3950	-.3304
100.000	-.1235	-.1270	-.1086	-.1130	-.0974	-.1144	-.1277	-.1478	-.1625	-.2436	-.2367	-.3214	-.3572	-.3328	-.3184
110.000	-.1149	-.1128	-.1230	-.1226	-.1195	-.1370	-.1433	-.1563	-.1814	-.2020	-.2483	-.2885	-.2944	-.2963	-.2490
120.000						-.1160								-.1760	
130.000						-.1258								-.1462	
140.000						-.1116								-.1346	
150.000						-.0853								-.1228	
160.000						-.0877								-.0825	
170.000						-.0711								-.0998	
180.000	-.0662	-.0750	-.0853	-.0841	-.0685	-.0891	-.0931	-.1088	-.1159	-.1227	-.1218	-.0989	-.1038	-.0903	-.0449

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0405		
70.000							-.0774	-.0518	.0000
80.000							-.1045	-.1095	-.0672
90.000	-.3437	-.0913	-.1753	-.1717	-.1451	.0000	-.1102	-.1190	-.0866
100.000	-.2793	-.1839	-.1317	-.1044	-.1392	-.1649			
110.000	-.1961	-.1143	-.0596	-.0510	-.1099	-.2303			
120.000						-.2113			
130.000						-.1090			
140.000						-.1122			
150.000						-.0262			
160.000						.0600			
170.000						.0996			
180.000	-.0198	.0304	.0805	.1087	.1800	.2838			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .849 ALPHA (1) = -8.398

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0114	-.1048	-.4157												
70.000	.0718	-.0828	-.3338												
80.000	.1300	-.1238	-.3129												
90.000			-.3974	-.7439	-.9983	-.4023	-.1897	-.1277	-.0816	-.0620	-.0395	-.0436	.0000	-.0118	-.0114
100.000						-.4707	-.3005	-.1473	-.0927	-.0644	-.0490	-.0700	-.0383	-.0634	-.0316
110.000						-.4974	-.3666	-.1981	-.1279	-.0877	-.0719	-.0490	-.0542	-.0570	-.0353
120.000						-.3579								-.0458	
130.000						-.2436								.0000	
140.000						-.2572								-.0675	
150.000						-.2035								-.0550	
160.000						-.1565								-.0454	
170.000						-.1361								-.0518	
180.000						-.1820	-.0832	-.1022	-.0719	-.0821	-.0413	-.0632	-.0335	-.0189	-.0032

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0088	.0054	.0391	.0417	.0581	.0503	.0000	.0000	.0734	.0589	.0581	.0326	-.0042	-.0064	.0039
100.000	.0017	-.0056	-.0051	.0266	.0376	.0462	.0522	.0440	.0706	.0345	.0542	.0304	.0006	-.0073	-.0057
110.000	-.0038	-.0038	.0138	.0281	.0305	.0253	.0492	.0570	.0661	.0656	.0475	.0484	.0246	.0196	.0155
120.000						.0218								.0371	
130.000						.0197								.0516	
140.000						-.0033								.0622	
150.000						.0283								.0587	
160.000						.0296								.0726	
170.000						.0287								.0596	
180.000	-.0097	.0026	-.0032	-.0084	.0240	.0285	.0263	.0140	.0134	.0298	.0408	.0525	.0596	.0840	.1218

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0900		
70.000							-.1298	-.1240	.0000
80.000							-.1394	-.1807	-.1421
90.000	-.0397	.0927	-.0266	-.0707	-.1076	.0000	-.1373	-.1797	-.1457
100.000	.0045	.0150	.0020	-.0216	-.1068	-.1701			
110.000	.0341	.0519	.0376	.0107	-.0890	-.2781			
120.000						-.4121			
130.000						-.1065			
140.000						.1204			
150.000						.1997			
160.000						.2448			
170.000						.3199			
180.000	.1624	.2057	.2680	.3180	.4015	.4870			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .849 ALPHA (2) = -6.303

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0233	-.1199	-.4070												
70.000	.0518	-.0754	-.3403												
80.000	.0951	-.1306	-.3248												
90.000			-.3926	-.7486	-.9892	-.3761	-.2248	-.1102	-.0660	-.0814	-.0597	-.0600	.0000	-.0186	-.0463
100.000						-.5372	-.3022	-.1392	-.0849	-.0587	-.0483	-.0671	-.0433	-.0710	-.0270
110.000						-.4788	-.3420	-.1933	-.1390	-.0986	-.0755	-.0646	-.0474	-.0667	-.0379
120.000						-.3405								-.0407	
130.000						-.4181								.0000	
140.000						-.3157								-.0656	
150.000						-.2479								-.0568	
160.000						-.2109								-.0648	
170.000						-.3535								-.0581	
180.000						-.3665	-.0896	-.0959	-.0983	-.1104	-.0517	-.0790	-.0459	-.0259	-.0390

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0346	-.0052	.0157	.0269	.0393	.0427	.0000	.0000	.0487	.0310	.0386	-.0100	-.0563	-.0544	-.0466
100.000	-.0235	-.0357	-.0157	.0057	.0187	.0338	.0154	.0392	.0508	-.0060	.0090	-.0214	-.0417	-.0225	-.0528
----	-.0142	-.0073	-.0129	-.0013	.0081	.0148	.0193	.0405	.0310	.0267	.0092	.0068	-.0067	-.0172	-.0190
120.000						.0245								.0096	
130.000						-.0237								.0131	
140.000						-.0180								.0256	
150.000						.0083								.0548	
160.000						.0085								.0569	
170.000						.0113								.0340	
180.000	-.0308	-.0147	-.0181	-.0065	-.0061	.0105	.0141	-.0052	.0016	.0111	.0090	.0183	.0407	.0710	.0966

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1001		
70.000							-.1295	-.1545	.0000
80.000							-.1723	-.2017	-.1441
90.000	-.0728	.0558	-.0470	-.0857	-.1347	.0000	-.1631	-.1610	-.1395
100.000	-.0290	-.0015	-.0224	-.0265	-.1030	-.2044			
110.000	.0043	.0227	.0291	.0010	-.0813	-.3006			
120.000						-.4128			
130.000						-.1253			
140.000						.0691			
150.000						.1598			
160.000						.2038			
170.000						.2800			
180.000	.1237	.2011	.2508	.2993	.3648	.4487			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .852 ALPHA (3) = -4.154

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0248	-.1207	-.3918												
70.000	.0536	-.0793	-.3312												
80.000	.0792	-.1183	-.3045												
90.000			-.3463	-.7095	-.9431	-.3768	-.2514	-.1141	-.0658	-.0849	-.0598	-.0583	.0000	-.0278	-.0558
100.000						-.4924	-.3547	-.1548	-.0722	-.0579	-.0413	-.0642	-.0456	-.0702	-.0462
110.000						-.5013	-.3742	-.1980	-.1230	-.0847	-.0644	-.0513	-.0438	-.0800	-.0543
120.000						-.6367								-.0385	
130.000						-.5621								.0000	
140.000						-.5557								-.0597	
150.000						-.5176								-.0507	
160.000						-.4082								-.0695	
170.000						-.3140								-.0663	
180.000						-.2773	-.0838	-.0722	-.0611	-.0816	-.0396	-.0441	-.0496	-.0353	-.0445

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0175	-.0148	-.0075	.0047	.0161	.0064	.0000	.0000	.0232	-.0079	-.0166	-.0544	-.0964	-.1075	-.0800
100.000	-.0383	-.0386	-.0328	-.0026	.0028	-.0009	.0084	.0133	.0280	-.0327	-.0109	-.0540	-.0858	-.0757	-.0865
110.000	-.0319	-.0270	-.0178	-.0165	-.0103	-.0131	-.0027	.0183	.0075	.0023	-.0214	-.0555	-.0516	-.0629	-.0460
120.000						-.0066								-.0307	
130.000						-.0177								-.0055	
140.000						-.0225								-.0042	
150.000						-.0010								.0017	
160.000						-.0088								.0239	
170.000						.0159								.0024	
180.000	-.0437	-.0338	-.0388	-.0208	-.0188	-.0051	-.0123	-.0233	-.0225	-.0290	-.0033	-.0116	.0045	.0226	.0725

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0866		
70.000							-.1246	-.1229	.0000
80.000							-.1537	-.1713	-.1210
90.000	-.0987	.0354	-.0769	-.1236	-.1618	.0000	-.1690	-.1657	-.1329
100.000	-.0897	-.0448	-.0483	-.0632	-.1514	-.1919			
110.000	-.0259	.0082	.0096	-.0178	-.1096	-.2924			
120.000						-.3797			
130.000						-.1223			
140.000						.0442			
150.000						.1379			
160.000						.1796			
170.000						.2530			
180.000	.1044	.1578	.2199	.2642	.3386	.4043			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .849 ALPHA (4) = -2.022

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0387	-.1272	-.3858												
70.000	.0407	-.0885	-.3046												
80.000	.0455	-.1109	-.2847												
90.000			-.2129	-.6888	-.8588	-.5201	-.1986	-.1495	-.1103	-.1186	-.0902	-.0855	.0000	-.0480	-.0583
100.000						-.4834	-.2844	-.1696	-.1168	-.0956	-.0739	-.0978	-.0659	-.0897	-.0738
110.000						-.6330	-.3068	-.2082	-.1537	-.1081	-.0855	-.0680	-.0594	-.0835	-.0536
120.000						-.7700								-.0508	
130.000						-.5192								.0000	
140.000						-.5487								-.0682	
150.000						-.5923								-.0611	
160.000						-.6328								-.0551	
170.000						-.6344								-.0448	
180.000						-.6688	-.4916	-.2871	-.1282	-.0712	-.0382	-.0431	-.0259	-.0358	-.0345

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0308	-.0330	-.0278	-.0130	.0074	-.0025	.0000	.0000	-.0015	-.0421	-.0583	-.1146	-.1635	-.1762	-.1498
100.000	-.0512	-.0601	-.0461	-.0265	-.0115	-.0171	-.0194	-.0164	-.0074	-.0578	-.0640	-.1052	-.1382	-.1384	-.1465
110.000	-.0351	-.0433	-.0347	-.0321	-.0265	-.0244	-.0229	-.0170	-.0061	-.0273	-.0528	-.0919	-.1042	-.1109	-.1086
120.000						-.0126								-.0570	
130.000						-.0465								-.0393	
140.000						-.0432								-.0275	
150.000						-.0214								-.0199	
160.000						-.0227								-.0116	
170.000						-.0225								-.0094	
180.000	-.0388	-.0306	-.0379	-.0412	-.0214	-.0168	-.0282	-.0388	-.0412	-.0421	-.0400	-.0352	-.0199	.0128	.0440

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1459		
70.000							-.1717	-.1292	.0000
80.000							-.2134	-.1742	-.1177
90.000	-.1640	-.0072	-.1281	-.1315	-.1638	.0000	-.1922	-.1757	-.1234
100.000	-.1242	-.0835	-.0773	-.0906	-.1696	-.2454			
110.000	-.0825	-.0277	-.0018	-.0198	-.1246	-.3217			
120.000						-.1780			
130.000						-.1163			
140.000						.0059			
150.000						.0786			
160.000						.1279			
170.000						.1793			
180.000	.0822	.1189	.1750	.2214	.2677	.3495			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA83

AMES 66-830 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .851 ALPHA (5) = .065

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0383	-.1130	-.3433												
70.000	.0328	-.0724	-.2820												
80.000	.0315	-.0996	-.2488												
90.000			-.2849	-.6446	-.8522	-.5183	-.2346	-.1662	-.1203	-.1401	.0964	-.0924	.0000	-.0605	-.0764
100.000						-.6306	-.2750	-.1829	-.1363	-.1036	-.0866	-.1013	-.0648	-.0869	-.0648
110.000						-.7583	-.3162	-.2311	-.1691	-.1196	-.0801	-.0680	-.0595	-.0824	-.0620
120.000						-.7309								-.0608	
130.000						-.6609								.0000	
140.000						-.6444								-.0640	
150.000						-.6580								-.0503	
160.000						-.7178								-.0453	
170.000						-.7075								-.0323	
180.000						-.7581	-.5847	-.4065	-.2360	-.1515	-.0562	-.0423	-.0205	-.0190	-.0305

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0410	-.0413	-.0355	-.0310	-.0126	-.0152	.0000	.0000	-.0290	-.0727	-.1017	-.1716	-.2104	-.2267	-.1909
100.000	-.0846	-.0868	-.0514	-.0459	-.0274	-.0398	-.0312	-.0364	-.0272	-.0971	-.0965	-.1422	-.1897	-.1729	-.2028
110.000	-.0465	-.0454	-.0310	-.0404	-.0250	-.0409	-.0296	-.0360	-.0403	-.0614	-.0954	-.1309	-.1583	-.1566	-.1506
120.000						-.0319								-.0965	
130.000						-.0453								-.0640	
140.000						-.0606								-.0551	
150.000						-.0275								-.0425	
160.000						-.0309								-.0399	
170.000						-.0268								-.0460	
180.000	-.0340	-.0201	-.0362	-.0323	-.0312	-.0307	-.0492	-.0562	-.0536	-.0592	-.0557	-.0501	-.0573	-.0253	.0206

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1117		
70.000							-.1469	-.1117	.0000
80.000							-.1720	-.1554	-.1175
90.000	-.2398	-.0331	-.1604	-.1670	-.2071	.0000	-.1999	-.1668	-.1180
100.000	-.1807	-.1304	-.1142	-.1080	-.1891	-.2798			
110.000	-.1287	-.0751	-.0244	-.0506	-.1502	-.3534			
120.000						-.3445			
130.000						-.1252			
140.000						-.0202			
150.000						.0451			
160.000						.0948			
170.000						.1426			
180.000	.0427	.0871	.1379	.1759	.2298	.3074			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .852 ALPHA (6) = 2.317

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0502	-.1310	- 3100												
70.000	.0158	-.0740	.2585												
80.000	.0190	-.0985	.2398												
90.000			-.2592	-.5595	-.8149	-.5277	-.2366	-.1951	-.1746	-.1730	-.1387	-.1222	.0000	-.0695	-.0837
100.000						-.5863	-.2836	-.2348	-.1873	-.1494	-.1227	-.1334	-.0916	-.1162	-.0788
110.000						-.8158	-.3280	-.2885	-.2563	-.1677	-.1225	-.0895	-.0803	-.1085	-.0800
120.000						-.7066								-.0700	
130.000						-.6607								.0000	
140.000						-.6596								-.0661	
150.000						-.7164								-.0567	
160.000						-.7191								-.0417	
170.000						-.7478								-.0460	
180.000						-.7371	-.6652	-.5682	-.4376	-.3144	-.1973	-.0871	-.0406	-.0451	-.0108

X/L	.4900	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6350	.6540	.6730	.6880	.7100
PHI															
90.000	-.0528	-.0535	.0484	-.0398	-.0224	-.0366	.0000	.0000	-.0631	-.1047	-.1448	-.2153	-.2743	-.2947	-.2601
100.000	-.0708	-.0724	-.0569	-.0439	-.0265	-.0535	-.0505	-.0483	-.0601	-.1193	-.1247	-.2007	-.2462	-.2377	-.2615
110.000	-.0557	-.0590	-.0516	-.0477	-.0507	-.0625	-.0481	-.0557	-.0555	-.0897	-.1291	-.1791	-.2022	-.2053	-.2009
120.000						-.0454								-.1276	
130.000						-.0527								-.1080	
140.000						-.0592								-.0866	
150.000						-.0322								-.0773	
160.000						-.0340								-.0738	
170.000						-.0292								-.0736	
180.000	-.0145	-.0192	-.0259	-.0254	-.0304	-.0288	-.0479	-.0581	-.0718	-.0755	-.0755	-.0727	-.0736	-.0512	.0007

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1290		
70.000							-.1517	-.1074	.0000
80.000							-.1608	-.1444	-.1045
90.000	-.3191	-.0748	-.1870	-.1834	-.1298	.0000	-.1962	-.1679	-.1197
100.000	-.2339	-.1839	-.1309	-.1357	-.2103	-.2867			
110.000	-.1778	-.0964	-.0755	-.0724	-.1784	-.3742			
120.000						-.3576			
130.000						-.1268			
140.000						-.0672			
150.000						.0153			
160.000						.0611			
170.000						.1045			
180.000	.0107	.0890	.0093	.1352	.1937	.2689			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8004)

M/CM (2) = .849 ALPHA (7) = 4.337

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0885	-.1248	-.2785												
70.000	-.0103	-.0178	-.2352												
80.000	-.0140	-.1136	-.2202												
90.000			-.2305	-.3550	-.8118	-.5340	-.2366	-.2042	-.1859	-.1859	-.1655	-.1389	.0000	-.0902	-.1093
100.000						-.6062	-.2681	-.2433	-.2004	-.1763	-.1611	-.1524	-.1016	-.1272	-.0876
110.000						-.6134	-.2889	-.3058	-.2426	-.1915	-.1660	-.1278	-.1044	-.1321	-.0947
120.000						-.6741								-.0982	
130.000						-.6601								.0000	
140.000						-.6538								-.1005	
150.000						-.7099								-.0711	
160.000						-.7387								-.0689	
170.000						-.7418								-.0846	
180.000						-.7492	-.6794	-.5981	-.4669	-.3782	-.2502	-.1665	-.0958	-.0616	-.0313

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0878	-.0526	-.0550	-.0423	-.0371	-.0494	.0000	.0000	-.0821	-.1302	-.1597	-.2370	-.3182	-.3482	-.3083
100.000	-.0848	-.0820	-.0773	-.0569	-.0511	-.0571	-.0666	-.0749	-.0771	-.1500	-.1501	-.2291	-.2767	-.2944	-.3158
110.000	-.0853	-.0971	-.0593	-.0601	-.0657	-.0668	-.0701	-.0719	-.0887	-.1177	-.1472	-.2134	-.2296	-.2626	-.2585
120.000						-.0605								-.1634	
130.000						-.0719								-.1490	
140.000						-.0751								-.1217	
150.000						-.0515								-.1055	
160.000						-.0402								-.0863	
170.000						-.0363								-.0883	
180.000	-.0086	-.0186	-.0287	-.0339	-.0343	-.0389	-.0577	-.0710	-.0815	-.0874	-.0869	-.0939	-.0942	-.0730	-.0238

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1106		
70.000							-.1396	-.1179	.0000
80.000							-.1715	-.1579	-.1068
90.000	-.3933	-.1078	-.2251	-.2095	-.2324	.0000	-.1746	-.1712	-.1164
100.000	-.3108	-.2270	-.1688	-.1543	-.2205	-.2502			
110.000	-.2399	-.1468	-.0878	-.0753	-.1621	-.3192			
120.000						-.3188			
130.000						-.1241			
140.000						-.0812			
150.000						-.0070			
160.000						.0649			
170.000						.0976			
180.000	-.0205	.0308	.0670	.1088	.1796	.2647			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .852 ALPHA (8) = 6.533

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.0750	-.1351	-.2355												
70.000	.0045	-.0737	-.1957												
80.000	-.0117	-.0897	-.1870												
90.000			-.1921	-.4951	-.7787	-.5022	-.2662	-.2259	-.1982	-.2110	-.1724	-.1572	.0000	-.0970	-.1217
100.000						-.5612	-.2903	-.2711	-.2232	-.2003	-.1588	-.1646	-.1161	-.1260	-.1195
110.000						-.7163	-.3228	-.3338	-.2653	-.2152	-.1711	-.1345	-.1279	-.1450	-.1018
120.000						-.6513								-.1069	
130.000						-.6518								.0000	
140.000						-.6760								-.1011	
150.000						-.6996								-.0968	
160.000						-.7357								-.0973	
170.000						-.7415								-.0950	
180.000						-.7535	-.7022	-.6299	-.5060	-.3832	-.2823	-.1701	-.0913	-.1022	-.0351

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0816	-.0749	-.0807	-.0434	-.0453	-.0599	.0000	.0000	-.0911	-.1453	-.1845	-.2788	-.3561	-.3862	-.3517
100.000	-.0890	-.0918	-.0813	-.0822	-.0502	-.0777	-.0818	-.0840	-.0918	-.1678	-.1808	-.2653	-.3038	-.3289	-.3444
110.000	-.0845	-.0770	-.0708	-.0706	-.0738	-.0897	-.0816	-.0868	-.1110	-.1456	-.1876	-.2294	-.2636	-.2971	-.2861
120.000						-.0783								-.1311	
130.000						-.0692								-.1680	
140.000						-.0727								-.1501	
150.000						-.0581								-.1321	
160.000						-.0398								-.1216	
170.000						-.0398								-.1186	
180.000	-.0177	-.0168	-.0104	-.0348	-.0331	-.0361	-.0509	-.0735	-.0892	-.0916	-.0996	-.1129	-.1138	-.1009	-.0485

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0841		
70.000							-.1254	-.1013	.0000
80.000							-.1493	-.1396	-.0922
90.000	-.4686	-.1342	-.2554	-.2346	-.2525	.0000	-.1681	-.1535	-.1065
100.000	-.3691	-.2914	-.1985	-.1732	-.2211	-.2439			
110.000	-.2720	-.1619	-.1030	-.1039	-.1834	-.3429			
120.000						-.3061			
130.000						-.1053			
140.000						-.1136			
150.000						-.0244			
160.000						.0683			
170.000						.1026			
180.000	-.0225	.0105	.0476	.0982	.1443	.2661			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (2) = .851 ALPHA (9) = 8.035

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0985	-.1465	-.2311												
70.000	-.0343	-.0836	-.1960												
80.000	-.0532	-.0972	-.1842												
90.000			-.1856	-.4980	-.7801	-.4982	-.2631	-.2377	-.2221	-.2353	-.1891	-.1643	.0000	-.1204	-.1348
100.000						-.5212	-.2796	-.2852	-.2482	-.2165	-.1710	-.1799	-.1457	-.1644	-.1200
110.000						-.6281	-.3157	-.3507	-.2945	-.2446	-.1880	-.1867	-.1573	-.1794	-.1142
120.000						-.5991								-.1563	
130.000						-.6375								.0000	
140.000						-.6609								-.1455	
150.000						-.7013								-.1024	
160.000						-.7207								-.0928	
170.000						-.7296								-.1129	
180.000						-.7352	-.7035	-.6459	-.5142	-.4252	-.3026	-.2191	-.1211	-.1097	-.0355

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0743	-.0866	-.0711	-.0634	-.0484	-.0692	.0000	.0000	-.1081	-.1672	-.2125	-.3007	-.3908	-.4176	-.4125
100.000	-.1086	-.1061	-.0902	-.0733	-.0679	-.0915	-.0835	-.0998	-.1027	-.1951	-.2088	-.2915	-.3588	-.3638	-.3923
110.000	-.1083	-.0911	-.0878	-.0872	-.0876	-.1046	-.0992	-.0955	-.1275	-.1554	-.2140	-.2693	-.2985	-.3164	-.3233
120.000						-.0881								-.2188	
130.000						-.0940								-.1774	
140.000						-.0785								-.1694	
150.000						-.0602								-.1439	
160.000						-.0547								-.1269	
170.000						-.0345								-.1311	
180.000	-.0212	-.0186	-.0257	-.0340	-.0409	-.0310	-.0632	-.0778	-.0957	-.1031	-.1197	-.1193	-.1186	-.1182	-.0819

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1126		
70.000							-.1584	-.1503	.0000
80.000							-.1790	-.2058	-.1305
90.000	-.3074	-.1580	-.2128	-.1795	-.1691	.0000	-.2050	-.1989	-.1571
100.000	-.4100	-.2080	-.1766	-.1221	-.1548	-.2116			
110.000	-.3122	-.1837	-.0901	-.0734	-.1366	-.2495			
120.000						-.2177			
130.000						-.1033			
140.000						-.1237			
150.000						-.0428			
160.000						.0391			
170.000						.0623			
180.000	-.0818	-.0087	.0466	.0842	.1366	.2665			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .950 ALPHA (1) = -2.346

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0871	.0125	-.2787												
90.000	.1646	.0401	-.1990												
80.000	.2365	.0037	-.1765												
90.000			-.2443	-.3717	-.7996	-.8178	-.8220	-.8050	-.7493	-.5850	-.4031	-.2722	.0000	-.1966	-.1533
100.000						-.8447	-.8346	-.8201	-.7994	-.6255	-.4178	-.2378	-.2158	-.2237	-.0235
110.000						-.9564	-.9016	-.8562	-.7807	-.6864	-.4979	-.3748	-.2501	-.2616	-.2289
120.000						-.7352								-.3527	
130.000						-.7866								.0000	
140.000						-.7843								-.4752	
150.000						-.6869								-.4667	
160.000						-.5790								-.4619	
170.000						-.5039								-.4596	
180.000						-.4451	-.3841	-.3950	-.3996	-.4235	-.4115	-.4523	-.4443	-.4525	-.3115

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	.0087	.0127	.0844	.0819	.1205	.1587	.0000	.0000	.1748	.1711	.1551	.1245	.1019	.0975	.0974
100.000	-.0230	.0544	.0159	.0472	.1049	.1234	.1408	.1510	.1553	.1382	.1429	.1198	.1054	.1066	.0919
110.000	-.1058	-.0145	-.0172	.0486	.0974	.1185	.1228	.1404	.1352	.1429	.1312	.1127	.1143	.1080	.1087
120.000						.1238								.1354	
130.000						.1343								.1431	
140.000						.0962								.1506	
150.000						.1250								.1519	
160.000						.1291								.1626	
170.000						.1364								.1519	
180.000	-.0750	-.0117	.0373	.1000	.1191	.1216	.1222	.1193	.1220	.1270	.1350	.1361	.1519	.1640	.2051

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0829		
90.000							-.1087	-.1313	.0000
80.000							-.1268	-.1713	-.1446
90.000	.0719	.1737	.0845	.0555	-.0029	.0000	-.1403	-.1579	-.1962
100.000	.1087	.1231	.1102	.0830	.0171	-.0699			
110.000	.1383	.1903	.1811	.1361	.0262	-.1624			
120.000						-.2712			
130.000						.0166			
140.000						.2241			
150.000						.3059			
160.000						.3174			
170.000						.3962			
180.000	.2501	.3162	.3798	.4201	.4650	.5134			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .949 ALPHA (2) = -6.182

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0686	-.0031	-.2803												
70.000	.1435	.0322	-.2036												
80.000	.1825	-.0092	-.1797												
90.000			-.2284	-.5689	-.8092	-.8235	-.8303	-.8145	-.7529	-.6236	-.4[illegible]	-.2898	.0000	-.1887	-.0434
100.000						-.8550	-.8462	-.8412	-.8122	-.6704	-.4606	-.3282	-.2732	-.1982	-.0766
110.000						-.9535	-.9075	-.8773	-.8254	-.7002	-.5342	-.3464	-.2718	-.2688	-.1292
120.000						-.7537								-.3224	
130.000						-.8424								.0000	
140.000						-.8268								-.4994	
150.000						-.7584								-.4957	
160.000						-.6775								-.4941	
170.000						-.5857								-.4961	
180.000						-.5345	-.4451	-.4545	-.4455	-.4707	-.4553	-.4969	-.4789	-.4816	-.4496

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0018	.0146	.0549	.0813	.1314	.1277	.0000	.0000	.1593	.1404	.1105	.0760	.0481	.0298	.0484
100.000	-.0511	.0073	.0283	.1131	.1187	.1261	.1360	.1402	.1512	.1240	.1156	.0796	.0609	.0563	.0529
110.000	.0059	.0063	.0307	.0817	.0884	.1029	.1087	.1299	.1295	.1225	.1034	.0794	.0772	.0579	.0727
120.000						.1063								.0888	
130.000						.0990								.1032	
140.000						.0876								.1113	
150.000						.1132								.1201	
160.000						.1038								.1217	
170.000						.1148								.1176	
180.000	-.1601	.0354	.0667	.0882	.0988	.1132	.1120	.1034	.1077	.1053	.1056	.1061	.1052	.1304	.1815

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1094		
70.000							-.1542	-.2156	.0000
80.000							-.1793	-.2495	-.2007
90.000	.0320	.1422	.0519	.0232	-.0255	.0000	-.1901	-.2289	-.2113
100.000	.0708	.0876	.0901	.0661	-.0027	-.0967			
110.000	.0971	.1324	.1435	.1197	.0044	-.1809			
120.000						-.2641			
130.000						.0210			
140.000						.1914			
150.000						.2600			
160.000						.2818			
170.000						.3578			
180.000	.2186	.2852	.3453	.3979	.4438	.4586			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .951 ALPHA (3) = -4.099

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0515	-.0146	-.2899												
70.000	.1208	.0178	-.2010												
80.000	.1437	-.0118	-.1782												
90.000			-.2094	-.5593	-.8037	-.8180	-.8183	-.7908	-.7171	-.6555	-.5145	-.3521	.0000	-.1099	-.0314
100.000						-.8454	-.8384	-.8365	-.7856	-.6737	-.5031	-.4028	-.1507	-.1057	-.0340
110.000						-.9350	-.8931	-.8765	-.8310	-.7177	-.5369	-.2753	-.1711	-.1457	-.1055
120.000						-.7654								-.1170	
130.000						-.8909								.0000	
140.000						-.8771								-.4527	
150.000						-.8157								-.4325	
160.000						-.7454								-.5099	
170.000						-.6505								-.5200	
180.000						-.6172	-.4977	-.5025	-.4964	-.5086	-.4952	-.5181	-.5022	-.5153	-.1515

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0706	.0394	.0218	.1107	.1080	.1172	.0000	.0000	.1207	.0971	.0830	.0473	.0031	-.0103	-.0047
100.000	-.1000	-.0038	.0228	.0758	.1125	.1135	.1089	.1142	.1211	.0815	.0921	.0530	.0258	.0207	-.0125
110.000	-.0164	-.0465	.0441	.0747	.0814	.1060	.1026	.1055	.1044	.0959	.0830	.0653	.0465	.0404	.0225
120.000						.0997								.0722	
130.000						.0915								.0868	
140.000						.0838								.0962	
150.000						.1000								.1029	
160.000						.0951								.1093	
170.000						.0957								.1012	
180.000	-.1483	.0112	.0433	.0812	.0928	.0913	.0813	.0767	.0762	.0797	.0864	.0935	.0958	.1179	.1409

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1170		
70.000							-.1623	-.2618	.0000
80.000							-.1852	-.3034	-.2583
90.000	-.0338	.1015	.0134	-.0111	-.0459	.0000	-.1979	-.2808	-.2573
100.000	.0174	.0474	.0530	.0349	-.0285	-.1074			
110.000	.0579	.0941	.1153	.0997	.0073	-.1725			
120.000						-.2434			
130.000						.0390			
140.000						.1721			
150.000						.2389			
160.000						.2611			
170.000						.3237			
180.000	.1737	.2456	.3037	.3513	.4181	.4199			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .951 ALPHA (4) = -1.966

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0249	-.0306	-.2860												
70.000	.0975	.0057	-.1993												
80.000	.1099	-.0150	-.1717												
90.000			-.1956	-.5435	-.7975	-.8078	-.7958	-.7355	-.6811	-.6480	-.5555	-.3667	.0000	-.0771	-.1312
100.000						-.8376	-.8264	-.8059	-.7347	-.6710	-.4985	-.2691	-.2098	-.2142	-.0890
110.000						-.9194	-.8804	-.8563	-.8161	-.6903	-.4383	-.3738	-.2241	-.2201	-.2011
120.000						-.7789								-.2696	
130.000						-.9244								.0000	
140.000						-.9278								-.1607	
150.000						-.8745								-.4862	
160.000						-.7977								-.5015	
170.000						-.7157								-.5296	
180.000						-.6688	-.5429	-.5366	-.5283	-.5446	-.5241	-.5461	-.5266	-.5173	-.1179

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0730	.0287	.0821	.0907	.0872	.1059	.0000	.0000	.1023	.0771	.0418	-.0091	-.0572	-.0841	-.0627
100.000	-.0020	.0277	.0768	.0709	.0842	.0972	.1017	.0998	.1076	.0599	.0508	.0043	-.0432	-.0381	-.0609
110.000	-.0018	.0136	.0447	.0917	.0892	.0931	.0966	.0958	.0934	.0822	.0491	.0071	-.0059	-.0156	-.0217
120.000						.0945								.0398	
130.000						.0860								.0542	
140.000						.0816								.0581	
150.000						.0982								.0591	
160.000						.0897								.0707	
170.000						.0915								.0638	
180.000	-.0244	.0289	.0799	.0551	.0947	.0913	.0820	.0747	.0688	.0670	.0611	.0512	.0625	.0723	.1213

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1391		
70.000							-.1760	-.3045	.0000
80.000							-.1995	-.3588	-.3210
90.000	-.0884	.0752	-.0075	-.0251	-.0629	.0000	-.2120	-.3449	-.3178
100.000	-.0308	.0172	.0308	.0279	-.0476	-.1327			
110.000	.0164	.0674	.1061	.0890	-.0099	-.1877			
120.000						-.2187			
130.000						.0317			
140.000						.1378			
150.000						.2066			
160.000						.2156			
170.000						.2825			
180.000	.1583	.2110	.2616	.3202	.3730	.3765			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .950 ALPHA (3) = .143

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0081	-.0473	-.2813												
70.000	.0694	-.0038	-.1997												
80.000	.0761	-.0219	-.1648												
90.000			-.1829	-.5253	-.7850	-.7745	-.7367	-.6721	-.6315	-.6153	-.5770	-.4357	.0000	-.1545	-.0906
100.000						-.8169	-.7832	-.7379	-.6742	-.6177	-.5565	-.3530	-.1347	-.1418	-.0344
110.000						-.8944	-.8570	-.8260	-.7709	-.6615	-.5277	-.3698	-.2348	-.2026	-.0581
120.000						-.7783								-.2014	
130.000						-.9534								.0000	
140.000						-.9788								-.3821	
150.000						-.9160								-.4220	
160.000						-.8562								-.43[illegible]	
170.000						-.7518								-.3597	
180.000						-.7182	-.6042	-.5892	-.5728	-.5732	-.5565	-.5396	-.4011	-.1874	-.0716

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0161	-.0237	.0533	.0683	.0840	.0881	.0000	.0000	.0819	.0506	.0086	-.0465	-.1038	-.1383	-.1305
100.000	-.0030	-.0166	.0472	.0659	.0777	.0748	.0803	.0811	.0837	.0338	.0122	-.0379	-.0800	-.1032	-.1328
110.000	.0126	.0047	.0208	.0718	.0610	.0669	.0766	.0831	.0764	.0531	.0096	-.0281	-.0490	-.0751	-.0800
120.000						.0826								-.0101	
130.000						.0782								.0230	
140.000						.0774								.0354	
150.000						.0821								.0396	
160.000						.0866								.0478	
170.000						.0892								.0451	
180.000	.0214	.0315	.0563	.0856	.0655	.0797	.0691	.0636	.0577	.0492	.0429	.0358	.0360	.0496	.0921

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1428		
70.000							-.1930	-.3170	.0000
80.000							-.2117	-.3721	-.3574
90.000	-.1823	.0362	-.0490	-.0533	-.0826	.0000	-.2213	-.3633	-.3562
100.000	-.1097	-.0912	-.0081	.0009	-.0622	-.1452			
110.000	-.0518	.0153	.0710	.0697	-.0342	-.2101			
120.000						-.1871			
130.000						.0335			
140.000						.1194			
150.000						.1733			
160.000						.1893			
170.000						.2491			
180.000	.1297	.1930	.2437	.2895	.3283	.3502			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .949 ALPHA (6) = 2.309

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0269	-.0717	-.2793												
70.000	.0301	-.0194	-.1973												
80.000	.0390	-.0387	-.1665												
90.000			-.1709	-.5102	-.7317	-.6987	-.6570	-.6118	-.5709	-.5770	-.5191	-.4499	.0000	-.0764	-.0803
100.000						-.7453	-.7159	-.6763	-.6260	-.6086	-.5210	-.2864	-.2808	-.1015	-.0334
110.000						-.8485	-.7862	-.7495	-.7166	-.6623	-.5451	-.3000	-.1951	-.2022	.0093
120.000						-.7774								-.1502	
130.000						-.9647								.0000	
140.000						-1.0190								-.1862	
150.000						-.9477								-.1357	
160.000						-.8969								-.1100	
170.000						-.7914								-.1919	
180.000						-.7682	-.6279	-.6164	-.5962	-.5849	-.5373	-.5125	-.1733	-.1070	-.0041

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0134	.0142	.0305	.0634	.0726	.0632	.0000	.0000	.0464	.0028	-.0272	-.0952	-.1694	-.2043	-.2017
100.000	-.0497	.0201	.0455	.0455	.0648	.0616	.0536	.0493	.0489	-.0121	-.0204	-.0868	-.1369	-.1499	-.1966
110.000	-.0094	.0189	.0496	.0518	.0553	.0522	.0546	.0497	.0369	.0103	-.0230	-.0695	-.0993	-.1324	-.1450
120.000						.0667								-.0580	
130.000						.0627								-.0300	
140.000						.0639								-.0096	
150.000						.0739								.0038	
160.000						.0603								.0032	
170.000						.0720								.0018	
180.000	.0219	.0551	.0573	.0632	.0669	.0726	.0550	.0397	.0322	.0225	.0140	.0046	.0044	.0058	.0620

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1614		
70.000							-.2141	-.3390	.0000
80.000							-.2378	-.4039	-.3996
90.000	-.2701	-.0157	-.1287	-.1040	-.1329	.0000	-.2490	-.4078	-.3970
100.000	-.1948	-.1289	-.0742	-.0395	-.1034	-.1851			
110.000	-.1262	-.0517	.0196	.0240	-.0677	-.2420			
120.000						-.2096			
130.000						.0321			
140.000						.0574			
150.000						.1213			
160.000						.1481			
170.000						.1976			
180.000	.0885	.1574	.2043	.2452	.2920	.3199			

AMES 66-83G PRESSURE VENTING - INTEG. VEHICLE (RE8004)

MACH (3) = .951 ALPHA (7) = 4.460

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0695	-.0987	-.2912												
70.000	-.0143	-.0375	-.2060												
80.000	-.0057	-.0728	-.1662												
90.000			-.1578	-.4988	-.6743	-.6674	-.6285	-.5773	-.5312	-.5212	-.5067	-.4967	.0000	-.3013	-.1029
100.000						-.6856	-.6938	-.6507	-.5923	-.5580	-.5348	-.4988	-.2714	-.1693	-.0651
110.000						-.7721	-.7428	-.7346	-.6922	-.6568	-.5402	-.4272	-.2551	-.2777	-.0732
120.000						-.7644								-.1184	
130.000						-.9803								.0000	
140.000						-1.0580								-.2030	
150.000						-.9883								-.1366	
160.000						-.9479								-.1394	
170.000						-.8507								-.1501	
180.000						-.7956	-.6670	-.6472	-.5978	-.5988	-.5488	-.4845	-.2432	-.1370	-.0397

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0098	.0103	.0103	.0436	.0500	.0480	.0000	.0000	.0320	-.0155	-.0557	-.1353	-.2068	-.2449	-.2586
100.000	-.0187	-.0043	.0135	.0434	.0486	.0509	.0460	.0296	.0320	-.0355	-.0461	-.1275	-.1858	-.1963	-.2617
110.000	.0014	.0310	.0075	.0304	.0381	.0310	.0354	.0330	.0221	-.0067	-.0557	-.1098	-.1402	-.1748	-.1983
120.000						.0458								-.0912	
130.000						.0452								-.0562	
140.000						.0476								-.0367	
150.000						.0644								-.0238	
160.000						.0699								-.0171	
170.000						.0731								-.0177	
180.000	.0275	.0212	.0832	.0588	.0665	.0663	.0571	.0417	.0281	.0148	-.0011	-.0120	-.0258	-.0073	.0290

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1760		
70.000							-.2355	-.3493	.00 3
80.000							-.2605	-.4190	-.4139
90.000	-.3238	-.0584	-.2077	-.1697	-.1708	.0000	-.2724	-.4311	-.4169
100.000	-.2533	-.1892	-.1274	-.0860	-.1485	-.2304			
110.000	-.1769	-.0903	-.0103	-.0152	-.1187	-.2895			
120.000						-.1999			
130.000						.0169			
140.000						.0433			
150.000						.1020			
160.000						.1350			
170.000						.1832			
180.000	.0595	.1246	.1777	.2262	.2712	.3010			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .952 ALPHA (8) = 6.637

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0777	-.1000	-.2548												
70.000	-.0452	-.0383	-.1781												
60.000	-.0194	-.0514	-.1411												
90.000			-.1250	-.4225	-.6710	-.6731	-.6145	-.5090	-.4611	-.4854	-.4825	-.4942	.0000	-.3366	-.0757
100.000						-.6969	-.6875	-.6159	-.5084	-.5021	-.5109	-.5285	-.4005	-.2570	-.0618
110.000						-.7584	-.7389	-.7128	-.6347	-.5998	-.5862	-.4592	-.2931	-.2104	-.0699
120.000						-.7390								-.1675	
130.000						-.9537								.0000	
140.000						-1.0660								-.1745	
150.000						-1.0030								-.1513	
160.000						-.9646								-.1584	
170.000						-.8693								-.1084	
180.000						-.7959	-.6812	-.6500	-.6078	-.5910	-.5139	-.4134	-.1399	-.1050	-.0439

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0336	-.0026	.0191	.0276	.0456	.0343	.0000	.0000	.0146	-.0403	-.0817	-.1598	-.2387	-.2810	-.3068
100.000	-.0316	-.0239	-.0022	.0266	.0418	.0243	.0233	.0176	.0119	-.0655	-.0744	-.1531	-.2133	-.2328	-.3109
110.000	-.0364	-.0006	.0083	.0136	.0243	.0095	.0229	.0156	-.0037	-.0405	-.0844	-.1404	-.1758	-.2141	-.2419
120.000						.0339								-.1209	
130.000						.0267								-.0945	
140.000						.0334								-.0815	
150.000						.0640								-.0613	
160.000						.0520								-.0502	
170.000						.0696								-.0549	
180.000	.0057	.0160	.0552	.0544	.0730	.0668	.0536	.0306	.0170	.0038	-.0136	-.0330	-.0440	-.0395	.0009

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2001		
70.000							-.2613	-.3683	.0000
80.000							-.2895	-.4411	-.4399
90.000	-.3619	-.0921	-.2589	-.2250	-.2439	.0000	-.3018	-.4548	-.4392
100.000	-.2970	-.2351	-.1764	-.1298	-.1992	-.2842			
110.000	-.2242	-.1312	-.0444	-.0503	-.1631	-.3410			
120.000						-.2044			
130.000						-.0418			
140.000						.0008			
150.000						.0745			
160.000						.1345			
170.000						.1757			
180.000	.0122	.0971	.1534	.2048	.2645	.3043			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (3) = .949 ALPHA (9) = 8.743

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0986	-.1060	-.2385												
70.000	-.0429	-.0528	-.1655												
80.000	-.0378	-.0660	-.1287												
90.000			-.1118	-.3890	-.6742	-.6717	-.5634	-.4662	-.4244	-.4677	-.4473	-.4958	.0000	-.3413	-.1625
100.000						-.6958	-.6491	-.5491	-.4689	-.4811	-.5010	-.5508	-.3837	-.3453	-.0797
110.000						-.7561	-.7288	-.6449	-.5777	-.5880	-.5323	-.4031	-.3164	-.2887	-.1006
120.000						-.7456								-.2312	
130.000						-.9737								.0000	
140.000						-1.1140								-.2078	
150.000						-1.0450								-.1973	
160.000						-1.0050								-.1718	
170.000						-.8763								-.1534	
180.000						-.8136	-.6999	-.6701	-.6302	-.5092	-.3568	-.2425	-.1768	-.1097	-.0507

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0341	-.0108	.0086	.0240	.0413	.0244	.0000	.0000	-.0028	-.0641	-.0986	-.1802	-.2719	-.3132	-.3459
100.000	-.0614	-.0333	-.0071	.0049	.0222	.0126	.0083	.0067	.0016	-.0897	-.0937	-.1798	-.2474	-.2672	-.3538
110.000	-.0610	-.0144	-.0130	-.0057	.0114	-.0089	.0028	-.0081	-.0246	-.0595	-.1023	-.1751	-.2082	-.2503	-.2916
120.000						.0195								-.1574	
130.000						.0079								-.1340	
140.000						.0211								-.1329	
150.000						.0541								-.1013	
160.000						.0583								-.0855	
170.000						.0683								-.0836	
180.000	.0118	.0403	.0716	.0576	.0698	.0677	.0486	.0272	.0053	-.0087	-.0238	-.0534	-.0731	-.0721	-.0334

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2077		
70.000							-.2693	-.3696	.0000
80.000							-.3002	-.4403	-.4264
90.000	-.4073	-.1291	-.3214	-.2702	-.2888	.0000	-.3186	-.4329	-.4466
100.000	-.3418	-.2943	-.2178	-.1656	-.2355	-.3333			
110.000	-.2633	-.1805	-.0720	-.0746	-.1767	-.3791			
120.000						-.2293			
130.000						-.0491			
140.000						-.0595			
150.000						.0548			
160.000						.1305			
170.000						.1660			
180.000	-.0111	.0822	.1183	.1865	.2561	.3321			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.051 ALPHA (1) = -8.328

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2223	.1591	-.1150												
70.000	.2933	.1845	-.0323												
80.000	.3370	.1483	-.0117												
90.000			-.0691	-.3748	-.5868	-.6112	-.6102	-.6039	-.5657	-.4859	-.3081	-.2202	.0000	-.1456	-.1443
100.000						-.6328	-.6237	-.6133	-.5976	-.5070	-.3461	-.2413	-.1830	-.1786	-.1479
110.000						-.7359	-.6789	-.6505	-.5898	-.5133	-.4242	-.2843	-.2154	-.2101	-.1766
120.000						-.5391								-.3084	
130.000						-.5888								.0000	
140.000						-.5723								-.3220	
150.000						-.5038								-.3069	
160.000						-.4335								-.3069	
170.000						-.3547								-.3007	
180.000						-.3165	-.2257	-.2313	-.2343	-.2597	-.2452	-.2869	-.2781	-.2886	-.2754

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1182	-.1174	-.1142	-.1063	-.0769	.0106	.0000	.0000	.1464	.1624	.1708	.1569	.1454	.1467	.1577
100.000	-.1416	-.1376	-.1306	-.1196	-.0850	-.0071	.0431	.0998	.1332	.1432	.1588	.1579	.1569	.1594	.1579
110.000	-.1802	-.1575	-.1479	-.1411	-.1149	-.0499	.0103	.0641	.1034	.1309	.1444	.1440	.1499	.1526	.1663
120.000						-.0804								.1861	
130.000						-.1229								.1927	
140.000						-.1254								.1963	
150.000						-.0907								.2062	
160.000						-.0970								.2088	
170.000						-.0865								.2001	
180.000	-.2727	-.2588	-.1832	-.1464	-.1087	-.0848	-.0842	-.0524	.0537	.1100	.1452	.1636	.1836	.2136	.2612

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0497		
70.000							.0068	-.0707	.0000
80.000							-.0110	-.0945	-.0667
90.000	.1543	.2392	.1752	.1517	.1135	.0000	-.0260	-.0755	-.0656
100.000	.1850	.2023	.2012	.1863	.1305	.0561			
110.000	.1994	.2307	.2451	.2247	.1239	-.0326			
120.000						-.1205			
130.000						.1514			
140.000						.3317			
150.000						.4063			
160.000						.4186			
170.000						.4852			
180.000	.3191	.3867	.4313	.5075	.5622	.2846			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.052 ALPHA (2) = -6.228

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1290	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3790	.3940	.4050	.4310
PHI															
60.000	.2080	.1469	-.1062												
70.000	.2779	.1774	-.0320												
80.000	.3133	.1450	-.0089												
90.000			-.0532	-.3686	-.5907	-.6091	-.6197	-.6089	-.5725	-.5135	-.3576	-.2528	.0000	-.1543	-.1339
100.000						-.6327	-.6298	-.6279	-.6138	-.5403	-.3736	-.2715	-.1945	-.1828	-.1424
110.000						-.7256	-.6846	-.6619	-.6230	-.5446	-.4384	-.2920	-.2196	-.2060	-.1637
120.000						-.5458								-.2837	
130.000						-.6318								.0000	
140.000						-.6206								-.3405	
150.000						-.5583								-.3295	
160.000						-.4949								-.3263	
170.000						-.4125								-.3265	
180.000						-.3837	-.2848	-.2848	-.2872	-.3056	-.2869	-.3228	-.3112	-.3158	-.2979

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1147	-.1301	-.1326	-.1275	-.0862	-.0030	.0000	.0000	.1342	.1445	.1362	.1152	.0945	.0909	.1065
100.000	-.1362	-.1520	-.1486	-.1409	-.1001	-.0266	.0404	.0681	.1219	.1244	.1301	.1154	.1057	.1116	.1109
110.000	-.1509	-.1573	-.1569	-.1548	-.1286	-.0577	.0123	.0667	.0991	.1206	.1174	.1089	.1118	.1148	.1309
120.000						-.0845								.1493	
130.000						-.1209								.1576	
140.000						-.1218								.1633	
150.000						-.0938								.1705	
160.000						-.0954								.1758	
170.000						-.0856								.1697	
180.000	-.3028	-.2798	-.1995	-.1533	-.1131	-.0869	-.0787	-.0478	.0498	.1035	.1187	.1332	.1514	.1807	.2334

X/L	.7890	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0286		
70.000							-.0090	-.1126	.0000
80.000							-.0309	-.1497	-.1215
90.000	.1091	.2081	.1442	.1229	.0889	.0000	-.0452	-.1345	-.1173
100.000	.1454	.1753	.1793	.1682	.1089	.0317			
110.000	.1698	.2087	.2316	.2134	.1108	-.0458			
120.000						-.1102			
130.000						.1551			
140.000						.3062			
150.000						.3766			
160.000						.3869			
170.000						.4479			
180.000	.2891	.3601	.4225	.4790	.5249	.5964			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.045 ALPHA (3) = -4.082

SECTION (1)ORB. FUSELAGE DEFENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1803	.1227	-.1211												
70.000	.2474	.1535	-.0439												
80.000	.2643	.1286	-.0203												
90.000			-.0558	-.3739	-.6045	-.6206	-.6274	-.6114	-.5630	-.5138	-.3886	-.2874	.0000	-.1818	-.1659
100.000						-.6461	-.6399	-.6429	-.6179	-.5476	-.3868	-.2817	-.2155	-.2096	-.1676
110.000						-.7295	-.6936	-.6759	-.6496	-.5702	-.4163	-.2738	-.2253	-.2176	-.1801
120.000						-.5697								-.2704	
130.000						-.6862								.0000	
140.000						-.6825								-.3586	
150.000						-.6233								-.3624	
160.000						-.5646								-.3658	
170.000						-.4787								-.3662	
180.000						-.4527	-.3442	-.3420	-.3410	-.3566	-.3373	-.3677	-.3531	-.3539	-.3317

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1384	-.1423	-.1423	-.1344	-.0906	.0037	.0000	.0000	.1114	.1120	.0989	.0637	.0268	.0132	.0351
100.000	-.1945	-.1816	-.1576	-.1459	-.1035	-.0252	.0313	.0770	.1067	.0964	.0991	.0702	.0465	.0471	.0454
110.000	-.1871	-.1807	-.1554	-.1489	-.1169	-.0493	.0108	.0551	.0857	.0962	.0900	.0726	.0677	.0610	.0782
120.000						-.0700								.0995	
130.000						-.0971								.1113	
140.000						-.1025								.1219	
150.000						-.0863								.1299	
160.000						-.0936								.1330	
170.000						-.0828								.1263	
180.000	-.3065	-.2463	-.1874	-.1497	-.1177	-.0840	-.0771	-.0288	.0475	.0766	.0861	.0941	.1080	.1393	.1934

X/L	.7290	.7470	.7370	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0063		
70.000							-.0308	-.1419	.0000
80.000							-.0525	-.1860	-.1696
90.000	.0251	.1613	.0946	.0873	.0583	.0000	-.0689	-.1752	-.1680
100.000	.0782	.1114	.1526	.1326	.0744	.0057			
110.000	.1178	.1864	.1978	.1861	.0941	-.0566			
120.000						-.1029			
130.000						.1559			
140.000						.2769			
150.000						.3414			
160.000						.3489			
170.000						.4035			
180.000	.8492	.3186	.3821	.4327	.4787	.4510			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.052 ALPHA (4) = -1.967

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1666	.1155	-.1211												
70.000	.2263	.1526	-.0368												
60.000	.2383	.1284	-.0077												
90.000			-.0312	-.3508	-.5846	-.5977	-.6029	-.5525	-.4998	-.4948	-.4059	-.2952	.0000	-.1862	-.1556
100.000						-.6237	-.6196	-.6157	-.5613	-.5053	-.3880	-.2901	-.2144	-.2065	-.1566
110.000						-.6959	-.6696	-.6546	-.6311	-.5317	-.3883	-.2738	-.2240	-.2057	-.1707
120.000						-.5672								-.2423	
130.000						-.7008								.0000	
140.000						-.7086								-.3218	
150.000						-.6515								-.3454	
160.000						-.6092								-.3572	
170.000						-.5161								-.3627	
180.000						-.4915	-.3788	-.3733	-.3678	-.3764	-.3563	-.3821	-.3674	-.3527	-.3133

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1262	-.1324	-.1309	-.1205	-.0579	.0251	.0000	.0000	.1156	.1014	.0814	.0389	-.0068	-.0346	-.0278
100.000	-.1443	-.1480	-.1440	-.1286	-.0732	.0094	.0494	.0867	.1132	.0865	.0625	.0423	.0094	-.0015	-.0249
110.000	-.1571	-.1467	-.1359	-.1280	-.0869	-.0044	.0437	.0770	.1016	.0965	.0800	.0526	.0349	.0240	.0217
120.000						-.0266								.0719	
130.000						-.0517								.0853	
140.000						-.0659								.0976	
150.000						-.0513								.0990	
160.000						-.0607								.1048	
170.000						-.0590								.1037	
180.000	-.2667	-.2172	-.1550	-.1211	-.0900	-.0714	-.0404	.0319	.0689	.0757	.0796	.0783	.0853	.1079	.1659

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0016		
70.000							-.0444	-.1477	.0000
60.000							-.0655	-.1925	-.1841
90.000	-.0573	.1167	.0391	.0489	.0220	.0000	-.0816	-.1901	-.1615
100.000	-.0019	.0489	.0860	.1012	.0375	-.0333			
110.000	.0353	.1118	.1619	.1457	.0577	-.0745			
120.000						-.0884			
130.000						.1671			
140.000						.2644			
150.000						.3169			
160.000						.3177			
170.000						.3662			
180.000	.2189	.2881	.3484	.3918	.4308	.4108			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (M) = 1.049 ALPHA (S) = .150

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1200	.0865	-.1347												
70.000	.1827	.1257	-.0434												
60.000	.1929	.1087	-.0141												
90.000			-.0307	-.3494	-.5794	-.5815	-.5688	-.4898	-.4492	-.4687	-.4210	-.3352	.0000	-.2081	-.1972
100.000						-.6143	-.6039	-.5684	-.4994	-.4694	-.4161	-.3163	-.2291	-.2325	-.1890
110.000						-.6863	-.6565	-.6386	-.5878	-.5026	-.4104	-.2868	-.2330	-.2281	-.1921
120.000						-.5810								-.2355	
130.000						-.7318								.0000	
140.000						-.7600								-.3012	
150.000						-.6993								-.3174	
160.000						-.6542								-.3420	
170.000						-.5719								-.3593	
180.000						-.5486	-.4230	-.4140	-.4046	-.4102	-.3897	-.4061	-.3735	-.3529	-.2619

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1422	-.1279	-.1240	-.0943	-.0316	.0422	.0000	.0000	.0953	.0771	.0617	.0101	-.0458	-.0829	-.0967
100.000	-.1715	-.1492	-.1335	-.1066	-.0392	.0320	.0553	.0799	.0930	.0629	.0631	.0164	-.0255	-.0472	-.0909
110.000	-.1706	-.1428	-.1260	-.1105	-.0586	.0177	.0488	.0754	.0813	.0754	.0598	.0230	-.0002	-.0328	-.0477
120.000						.0016								.0221	
130.000						-.0142								.0445	
140.000						-.0247								.0524	
150.000						-.0173								.0602	
160.000						-.0236								.0682	
170.000						-.0209								.0741	
180.000	-.2077	-.1670	-.1213	-.0990	-.0711	-.0222	.0118	.0483	.0579	.0617	.0682	.0602	.0562	.0792	.1281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0305		
70.000							-.0759	-.1758	.0000
80.000							-.0982	-.2331	-.2151
90.000	-.1409	.0715	-.0381	-.0205	-.0326	.0000	-.1175	-.2415	-.2123
100.000	-.0755	-.0213	.0177	.0257	-.0178	-.0784			
110.000	-.0070	.0486	.1004	.0819	.0114	-.1248			
120.000						-.0779			
130.000						.1485			
140.000						.2303			
150.000						.2734			
160.000						.2711			
170.000						.3177			
180.000	.1817	.2457	.2918	.3220	.3766	.3715			

.MES #6-636 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.046 ALPHA (6) = 2.351

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0891	.0363	-.1525												
70.000	.1297	.0875	-.0682												
80.000	.1329	.0666	-.0307												
90.000			-.0325	-.3440	-.3787	-.5698	-.4900	-.4311	-.4227	-.4464	-.4125	-.3761	.0000	-.2417	-.2105
100.000						-.6044	-.5715	-.4928	-.4372	-.4614	-.4193	-.3807	-.2701	-.2674	-.2004
110.000						-.6763	-.6471	-.5905	-.5275	-.5024	-.4384	-.3201	-.2512	-.2498	-.2021
120.000						-.5944								-.2493	
130.000						-.7570								.0000	
140.000						-.6080								-.2845	
150.000						-.7426								-.2977	
160.000						-.7059								-.3074	
170.000						-.6319								-.3001	
180.000						-.5971	-.4747	-.4612	-.4437	-.4401	-.4227	-.4225	-.3460	-.2317	.2065

X/L	.4900	.4680	.4460	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	7100
PHI															
90.000	-.1360	-.1493	-.1101	-.0730	-.0053	.0535	.0000	.0021	.0881	.0554	.0335	-.0239	-.0899	-.1305	-.1557
100.000	-.1781	-.1489	-.1211	-.0825	-.0134	.0478	.0693	.0836	.0851	.0430	.0400	-.0149	-.0635	-.0891	-.1546
110.000	-.1828	-.1366	-.1007	-.0857	-.0248	.0360	.0605	.0754	.0725	.0578	.0360	-.0047	-.0352	-.0716	-.1075
120.000						.0371								-.0137	
130.000						.0343								.0160	
140.000						.0282								.0[illegible]8	
150.000						.0400								.0365	
160.000						.0375								.0423	
170.000						.0436								.0365	
180.000	-.1754	-.1251	-.0380	-.0588	-.0166	.0373	.0554	.0565	.0554	.0540	.0542	.0438	.0385	.0472	.0903

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
80.000							-.0648		
70.000							-.1183	-.2081	.0000
80.000							-.1396	-.2714	-.2644
90.000	-.2181	.0186	-.1202	-.0772	-.0864	.0000	-.1525	-.2927	-.2592
100.000	-.1489	-.0082	-.0475	-.0037	-.0579	-.1325			
110.000	-.0808	-.0164	.0578	.0649	-.0222	-.1707			
120.000						-.0935			
130.000						.1316			
140.000						.1635			
150.000						.2113			
160.000						.2139			
170.000						.2624			
180.000	.1373	.2080	.2960	.2928	.3292	.3360			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.048 ALPHA (7) = 4.478

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0320	-.0018	-.1761												
70.000	.0880	.0556	-.0998												
80.000	.0880	.0371	-.0519												
90.000			-.0346	-.3403	-.5706	-.5151	-.4219	-.4056	-.3981	-.4244	-.3938	-.3714	.0000	-.2807	-.2338
100.000						-.5897	-.4933	-.4515	-.4332	-.4419	-.4111	-.3942	-.3085	-.2972	-.2091
110.000						-.6635	-.5806	-.5196	-.5035	-.5129	-.4574	-.3476	-.2762	-.2868	-.2229
120.000						-.6070								-.2524	
130.000						-.7746								.0000	
140.000						-.8479								-.2692	
150.000						-.7825								-.2749	
160.000						-.7491								-.2733	
170.000						-.6914								-.2590	
180.000						-.6456	-.5109	-.4892	-.4790	-.4619	-.4323	-.3886	-.3002	-.2476	-.1639

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1908	-.1409	-.1068	-.0329	.0245	.0634	.0000	.0000	.0852	.0453	.0201	-.0432	-.1160	-.1596	-.1978
100.000	-.2010	-.1454	-.1155	-.0343	.0096	.0532	.0761	.0860	.0831	.0259	.0248	-.0391	-.0991	-.1215	-.2060
110.000	-.1872	-.1543	-.1085	-.0445	.0195	.0387	.0719	.0799	.0666	.0459	.0149	-.0343	-.0655	-.1066	-.1545
120.000						.0406								-.0451	
130.000						.0518								-.0111	
140.000						.0552								.0064	
150.000						.0601								.0159	
160.000						.0647								.0214	
170.000						.0700								.0157	
180.000	-.1354	-.1055	-.0511	-.0101	.0225	.0710	.0694	.0729	.0594	.0590	.0472	.0338	.0241	.0271	.0637

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0894		
70.000							-.1437	-.2288	.0000
80.000							-.1688	-.2983	-.2956
90.000	-.2514	-.0168	-.1741	-.1337	-.1385	.0000	-.1848	-.3183	-.2915
100.000	-.1960	-.1523	-.0853	-.0383	-.0917	-.1714			
110.000	-.1457	-.0611	.0365	.0402	-.0455	-.2084			
120.000						-.0872			
130.000						.1252			
140.000						.1383			
150.000						.1689			
160.000						.2037			
170.000						.2430			
180.000	.1033	.1731	.2287	.2669	.3123	.3148			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.052 ALPHA (8) = 6.494

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0271	-.0320	-.1465												
70.000	.0259	.0261	-.0704												
80.000	.0219	.0267	-.0273												
90.000			-.0066	-.3059	-.5096	-.4503	-.4161	-.3973	-.3832	-.3852	-.3766	-.3648	.0000	-.3153	-.2665
100.000						-.4895	-.4639	-.4480	-.4277	-.4032	-.3973	-.4147	-.3436	-.3300	-.2283
110.000						-.6130	-.5149	-.5141	-.4971	-.5059	-.4615	-.3931	-.3117	-.2976	-.2332
120.000						-.5923								-.2407	
130.000						-.7767								.0000	
140.000						-.8704								-.2228	
150.000						-.8068								-.2222	
160.000						-.7759								-.2241	
170.000						-.7158								-.2296	
180.000						-.6704	-.5382	-.5186	-.4973	-.4840	-.4100	-.3658	-.2577	-.2197	-.1362

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2010	-.1862	-.1572	-.0899	.0632	.0960	.0000	.0000	.0918	.0418	.0238	-.0455	-.1168	-.1651	-.2126
100.000	-.2266	-.2118	-.1623	-.0389	.0615	.0755	.0950	.0859	.0899	.0246	.0248	-.0404	-.0936	-.1262	-.2220
110.000	-.2179	-.1915	-.1644	-.0549	.0386	.0611	.0806	.0765	.0676	.0414	.0115	-.0409	-.0685	-.1154	-.1711
120.000						.0634								-.0452	
130.000						.0683								-.0057	
140.000						.0751								.0018	
150.000						.0799								.0132	
160.000						.0827								.0160	
170.000						.0910								.0092	
180.000	-.0990	-.0715	-.0581	.0263	.0600	.0922	.0878	.0821	.0757	.0755	.0678	.0517	.0335	.0229	.0546

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0965		
70.000							-.1537	-.2361	.0000
80.000							-.1794	-.3065	-.3190
90.000	-.2604	-.0358	-.2013	-.1552	-.1605	.0000	-.2015	-.3258	-.3234
100.000	-.2108	- 1872	-.1011	-.0495	-.1013	-.1911			
110.000	-.1680	-.0828	.0319	.0394	-.0461	-.2165			
120.000						-.0652			
130.000						.1263			
140.000						.1138			
150.000						.1769			
160.000						.2228			
170.000						.2590			
180.000	.0808	.1571	.2195	.2720	.3370	.3408			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (4) = 1.052 ALPHA (9) = 8.613

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0823	-.0719	-.1438												
70.000	-.0277	-.0060	-.0650												
80.000	-.0470	-.0087	-.0220												
90.000			.0061	-.2915	-.4454	-.4397	-.4028	-.3736	-.3451	-.3425	-.3472	-.3539	.0000	-.3291	-.3474
100.000						-.4416	-.4524	-.4360	-.3977	-.3687	-.3752	-.4117	-.3758	-.4043	-.2679
110.000						-.5302	-.4917	-.5080	-.4823	-.4778	-.4589	-.4314	-.3920	-.3828	-.2602
120.000						-.5902								-.2602	
130.000						-.7881								.0000	
140.000						-.9031								-.2024	
150.000						-.8386								-.1962	
160.000						-.8034								-.1988	
170.000						-.7478								-.1935	
180.000						-.6968	-.5672	-.5441	-.5084	-.4673	-.4202	-.3493	-.2359	-.1826	-.0909

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2496	-.2290	-.1736	-.0589	.0646	.0972	.0000	.0000	.0778	.0207	.0032	-.0619	-.1337	-.1852	-.2415
100.000	-.2591	-.2377	-.1904	-.0218	.0690	.0828	.0820	.0765	.0750	-.0039	.0039	-.0590	-.1163	-.1465	-.2498
110.000	-.2218	-.2045	-.1770	-.0271	.0417	.0639	.0646	.0613	.0473	.0163	-.0100	-.0650	-.0927	-.1404	-.2066
120.000						.0574								-.0656	
130.000						.0422								-.0342	
140.000						.0646								-.0332	
150.000						.0746								-.0089	
160.000						.0825								.0068	
170.000						.0937								.0013	
180.000	-.0649	-.0587	-.0284	.0345	.0690	.0935	.0886	.0829	.0748	.0687	.0633	.0457	.0216	.0142	.0222

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1214		
70.000							-.1770	-.2493	.0000
80.000							-.2057	-.3206	-.3299
90.000	-.2912	-.0720	-.2488	-.1860	-.1880	.0000	-.2282	-.3405	-.3369
100.000	-.2323	-.2286	-.1341	-.0722	-.1237	-.2147			
110.000	-.2107	-.1251	.0090	.0237	-.0560	-.2284			
120.000						-.0551			
130.000						.1136			
140.000						.0908			
150.000						.1544			
160.000						.2516			
170.000						.2705			
180.000	.0279	.1378	.2070	.2710	.3564	.3729			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (9) = 1.100 ALPHA (1) = -8.181

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2827	.2204	-.0421												
70.000	.3484	.2450	.0391												
80.000	.3933	.2138	.0625												
90.000			.0045	-.2713	-.4994	-.5232	-.5237	-.5184	-.4801	-.4210	-.2508	-.1610	.0000	-.0882	-.0869
100.000						-.5443	-.5363	-.5282	-.5139	-.4329	-.2878	-.1900	-.1290	-.1218	-.0897
110.000						-.6438	-.5930	-.5627	-.5060	-.4347	-.3628	-.2313	-.1608	-.1546	-.1174
120.000						-.4530								-.2527	
130.000						-.5024								.0000	
140.000						-.4847								-.2544	
150.000						-.4217								-.2393	
160.000						-.3470								-.2382	
170.000						-.2787								-.2311	
180.000						-.2436	-.1527	-.1549	-.1606	-.1887	-.1774	-.2190	-.2105	-.2417	-.2099

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0635	-.0663	-.0648	-.0587	-.0458	-.0002	.0000	.0000	.1669	.1877	.2018	.1998	.1860	.1885	.2051
100.000	-.0839	-.0824	-.0801	-.0726	-.0569	-.0196	.0457	.1104	.1503	.1675	.1927	.1936	.1947	.2048	.2057
110.000	-.1042	-.0991	-.0970	-.0962	-.0844	-.0396	.0142	.0793	.1226	.1538	.1750	.1777	.1916	.1949	.2109
120.000						-.0661								.2265	
130.000						-.0900								.2340	
140.000						-.0869								.2374	
150.000						-.0507								.2418	
160.000						-.0506								.2471	
170.000						-.0430								.2423	
180.000	-.2073	-.2026	-.1412	-.1039	-.0648	-.0439	-.0439	-.0437	-.0139	.0833	.1706	.2015	.2268	.2522	.3046

X/L	.7290	.7470	.7670	.7850	.8030	.8. .)	.8620	.9000	.9400
PHI									
60.000							.1105		
70.000							.0665	-.0167	.0000
80.000							.0497	-.0428	-.0213
90.000	.2009	.2709	.2245	.2008	.1656	.0000	.0336	-.0304	-.0213
100.000	.2303	.2490	.2485	.2350	.1819	.1212			
110.000	.2457	.2784	.2908	.2716	.1842	.0322			
120.000						-.0502			
130.000						.2138			
140.000						.3894			
150.000						.4629			
160.000						.4713			
170.000						.5320			
180.000	.3823	.4294	.4918	.3480	.6125	.3551			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE0004)

MACH (5) = 1.100 ALPHA (2) = -6.221

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2691	.2087	-.0397												
70.000	.3352	.2388	.0354												
80.000	.3714	.2061	.0581												
90.000			.0130	-.2648	-.5029	-.5230	-.5365	-.5308	-.4962	-.4403	-.2950	-.1947	.0000	-.1047	-.0762
100.000						-.5449	-.5472	-.5466	-.5359	-.4687	-.3150	-.2151	-.1452	-.1336	-.0885
110.000						-.6357	-.6023	-.5816	-.5423	-.4698	-.3712	-.2310	-.1649	-.1565	-.1118
120.000						-.4582								-.2354	
130.000						-.5426								.0000	
140.000						-.5299								-.2688	
150.000						-.4735								-.2561	
160.000						-.4085								-.2554	
170.000						-.3318								-.2546	
180.000						-.3043	-.2098	-.2132	-.2139	-.2356	-.2194	-.2494	-.2410	-.2417	-.2281

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0569	-.0858	-.0925	-.0955	-.0769	-.0013	.0000	.0000	.1584	.1723	.1731	.1469	.1264	.1211	.1553
100.000	-.0784	-.1066	-.1097	-.1082	-.0871	-.0259	.0402	.1012	.1434	.1502	.1627	.1469	.1371	.1425	.1630
110.000	-.1095	-.1157	-.1173	-.1228	-.1091	-.0567	.0084	.0738	.1155	.1423	.1462	.1365	.1429	.1444	.1805
120.000						-.0776								.1779	
130.000						-.0889								.1901	
140.000						-.0845								.1956	
150.000						-.0531								.2002	
160.000						-.0553								.2033	
170.000						-.0470								.1971	
180.000	-.2487	-.2389	-.1728	-.1308	-.0858	-.0481	-.0462	-.0392	-.0115	.0837	.1442	.1627	.1810	.2068	.2797

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0768		
70.000							.0390	-.0645	.0000
80.000							.0167	-.0995	-.0810
90.000	.1561	.2445	.1971	.1798	.1474	.0000	.0019	-.0863	-.0798
100.000	.1919	.2224	.2319	.2234	.1681	.0913			
110.000	.2185	.2580	.2816	.2652	.1687	.0099			
120.000						-.0516			
130.000						.2089			
140.000						.3537			
150.000						.4210			
160.000						.4268			
170.000						.4853			
180.000	.3372	.4047	.4693	.5228	.5702	.3267			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (9) = 1.100 ALPHA (3) = -4.014

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2473	.1971	-.0365												
70.000	.3131	.2270	.0361												
80.000	.3348	.2000	.0600												
90.000			.0276	-.2509	-.5025	-.5227	-.5310	-.5167	-.4698	-.4242	-.3250	-.2095	.0000	-.1161	-.1032
100.000						-.5453	-.5374	-.5419	-.5235	-.4623	-.3163	-.2118	-.1435	-.1404	-.1040
110.000						-.6239	-.5905	-.5753	-.5495	-.4820	-.3513	-.2180	-.1582	-.1495	-.1159
120.000						-.4710								-.2045	
130.000						-.5836								.0000	
140.000						-.5785								-.2793	
150.000						-.5232								-.2784	
160.000						-.4655								-.2784	
170.000						-.3861								-.2824	
180.000						-.3645	-.2545	-.2528	-.2504	-.2660	-.2481	-.2817	-.2712	-.2746	-.2539

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0727	-.0768	-.0744	-.0734	-.0545	.0040	.0000	.0000	.1550	.1504	.1459	.1153	.0832	.0633	.0796
100.000	-.0905	-.0935	-.0895	-.0830	-.0599	-.0140	.0555	.1099	.1388	.1344	.1437	.1189	.1003	.0956	.0887
110.000	-.0995	-.0931	-.0870	-.0862	-.0717	-.0262	.0289	.0867	.1136	.1298	.1313	.1193	.1165	.1103	.1246
120.000						-.0332								.1479	
130.000						-.0671								.1614	
140.000						-.0696								.1681	
150.000						-.0422								.1711	
160.000						-.0455								.1802	
170.000						-.0407								.1743	
180.000	-.2423	-.1979	-.1280	-.0939	-.0588	-.0418	-.0372	-.0154	.0205	.0995	.1275	.1360	.1532	.1909	.2442

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0856		
70.000							.0483	-.0568	.0000
80.000							.0263	-.0993	-.0873
90.000	.0737	.1978	.1570	.1514	.1262	.0000	.0117	-.0912	-.0841
100.000	.1223	.1681	.1996	.1955	.1439	.0777			
110.000	.1672	.2208	.2637	.2495	.1571	.0187			
120.000						-.0216			
130.000						.2284			
140.000						.3459			
150.000						.4093			
160.000						.4103			
170.000						.4632			
180.000	.3048	.3777	.4400	.4882	.5305	.3295			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (5) = 1.109 ALPHA (4) = -1.957

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2335	.1948	-.0329												
70.000	.2978	.2266	.0498												
80.000	.3077	.2044	.0738												
90.000			.0540	-.2242	-.4815	-.4950	-.4998	-.4626	-.4173	-.4057	-.3442	-.2375	.0000	-.1119	-.0817
100.000						-.5219	-.5180	-.5139	-.4716	-.4215	-.3218	-.2322	-.1459	-.1318	-.0779
110.000						-.5965	-.5678	-.5541	-.5321	-.4538	-.3220	-.2118	-.1523	-.1362	-.0882
120.000						-.4668								-.1662	
130.000						-.5950								.0000	
140.000						-.6036								-.2346	
150.000						-.5480								-.2514	
160.000						-.4980								-.2623	
170.000						-.4217								-.2632	
180.000						-.3992	-.2854	-.2816	-.2758	-.2865	-.2660	-.2909	-.2724	-.2561	-.2207

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0430	-.0698	-.0683	-.0689	-.0519	.0116	.0000	.0000	.1706	.1659	.1385	.1009	.0552	.0234	.0338
100.000	-.0805	-.0822	-.0799	-.0748	-.0557	-.0049	.0786	.1331	.1642	.1551	.1436	.1083	.0727	.0578	.0398
110.000	-.0893	-.0824	-.0759	-.0777	-.0620	-.0253	.0631	.1140	.1439	.1579	.1369	.1109	.0938	.0751	.0773
120.000						-.0180								.1189	
130.000						-.0282								.1311	
140.000						-.0344								.1358	
150.000						-.0125								.1425	
160.000						-.0166								.1469	
170.000						-.0113								.1436	
180.000	-.2082	-.1590	-.1054	-.0721	-.0435	-.0118	-.0045	.0106	.0728	.1411	.1305	.1303	.1334	.1540	.2211

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0702		
70.000							.0280	-.0676	.0000
80.000							.0053	-.1144	-.1086
90.000	.0103	.1578	.0965	.1108	.0918	.0000	-.0104	-.1151	-.1033
100.000	.0835	.1110	.1483	.1621	.1378	.0320			
110.000	.1174	.1770	.2230	.2106	.1200	-.0051			
120.000						-.0098			
130.000						.2400			
140.000						.3339			
150.000						.3855			
160.000						.3833			
170.000						.4312			
180.000	.2764	.3490	.4113	.4604	.4916	.2983			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (5) = 1.095 ALPHA (5) = .169

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1665	.1358	-.0756												
70.000	.2281	.1744	.0088												
80.000	.2365	.1555	.0379												
90.000			.0260	-.2522	-.5076	-.5191	-.4975	-.4352	-.3891	-.4112	-.3787	-.3073	.0000	-.1788	-.1723
100.000						-.5476	-.5346	-.5085	-.4426	-.4122	-.3682	-.2984	-.2031	-.2003	-.1655
110.000						-.6133	-.5878	-.5706	-.5272	-.4477	-.3605	-.2609	-.2003	-.1974	-.1635
120.000						-.5095								-.2118	
130.000						-.6554								.0000	
140.000						-.6823								-.266	
150.000						-.6235								-.2861	
160.000						-.5822								-.31	
170.000						-.5116								-.3226	
180.000						-.4873	-.3646	-.3541	-.3453	-.3503	-.3296	-.3508	-.3268	-.3191	-.2441

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1265	-.1140	-.1007	-.0908	-.0437	.0452	.0000	.0000	.1426	.1292	.1220	.0764	.0254	-.0080	-.0257
100.000	-.1438	-.1320	-.1162	-.1001	-.0549	.0307	.0929	.1177	.1378	.1168	.1218	.0837	.0448	.0248	-.0189
110.000	-.1346	-.1231	-.1069	-.0961	-.0713	.0160	.0764	.1142	.1246	.1274	.1193	.0916	.0687	.0393	.0201
120.000						-.0051								.0918	
130.000						-.0298								.1169	
140.000						-.0402								.1261	
150.000						-.0207								.1310	
160.000						-.0309								.1367	
170.000						-.0243								.1341	
180.000	-.1662	-.1490	-.0987	-.0775	-.0594	-.0256	-.0042	.0508	.0893	.1239	.1294	.1299	.1294	.1426	.1893

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9.00
PHI									
60.000							.0232		
70.000							-.0198	-.1159	.0000
80.000							-.0430	-.1713	-.1650
90.000	-.0809	.1077	.0175	.0407	.0222	.0000	-.0584	-.1790	-.1588
100.000	-.0077	.0398	.0725	.0970	.0449	-.0203			
110.000	.0514	.1105	.1594	.1499	.0711	-.0591			
120.000						-.0137			
130.000						.2056			
140.000						.2851			
150.000						.3241			
160.000						.3171			
170.000						.3655			
180.000	.2333	.2946	.3430	.3812	.4212	.2174			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (5) = 1.104 ALPHA (6) = 2.300

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1424	.1144	-.0814												
70.000	.1995	.1570	.0093												
80.000	.2044	.1432	.0446												
90.000			.0473	-.2185	-.4790	-.4874	-.4321	-.3447	-.3268	-.3653	-.3404	-.3080	.0000	-.1971	-.1749
100.000						-.5159	-.4892	-.4210	-.3637	-.3702	-.3475	-.3136	-.2097	-.2117	-.1622
110.000						-.5764	-.5500	-.5193	-.4461	-.4142	-.3592	-.2578	-.1936	-.1956	-.1591
120.000						-.4967								-.1863	
130.000						-.6535								.0000	
140.000						-.7015								-.2228	
150.000						-.6423								-.2397	
160.000						-.6075								-.2565	
170.000						-.5434								-.2674	
180.000						-.5142	-.3845	-.3739	-.3619	-.3622	-.3389	-.3496	-.3006	-.2595	-.1675

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1294	-.1133	-.0988	-.0915	-.0581	.0401	.0000	.0000	.1557	.1385	.1163	.0645	.0063	-.0343	-.0526
100.000	-.1463	-.1369	-.1153	-.0975	-.0596	.0253	.1006	.1371	.1550	.1283	.1234	.0776	.0300	.0056	-.0479
110.000	-.1456	-.1258	-.1053	-.0980	-.0716	.0125	.0873	.1285	.1404	.1374	.1190	.0860	.0550	.0257	-.0005
120.000						-.0015								.0831	
130.000						-.0013								.1159	
140.000						-.0019								.1269	
150.000						-.0010								.1358	
160.000						-.0028								.1373	
170.000						.0001								.1311	
180.000	-.1330	-.1051	-.0824	-.0696	-.0478	-.0043	.0328	.0891	.1214	.1453	.1354	.1385	.1329	.1438	.1887

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0170		
70.000							-.0329	-.1159	.0000
80.000							-.0532	-.1785	-.1787
90.000	-.1010	.0941	-.0227	.0086	.0049	.0000	-.0643	-.1949	-.1688
100.000	-.0398	.0087	.0403	.0801	.0310	-.0461			
110.000	.0187	.0782	.1349	.1431	.0602	-.0780			
120.000						.0033			
130.000						.2204			
140.000						.2536			
150.000						.2948			
160.000						.2916			
170.000						.3331			
180.000	.2256	.2807	.3265	.3612	.3925	.1782			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (RE8004)

MACH (5) = 1.097 ALPHA (7) = 4.411

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0842	.0367	-.1205												
70.000	.1489	.1142	-.0393												
80.000	.1405	.0955	.0071												
90.000			.0238	-.2428	-.4956	-.4852	-.3458	-.3097	-.3095	-.3437	-.3246	-.3207	.0000	-.2506	-.2196
100.000						-.5255	-.4618	-.3619	-.3416	-.3564	-.3467	-.3492	-.2695	-.2648	-.2007
110.000						-.5895	-.5499	-.4614	-.4078	-.4238	-.3885	-.3147	-.2422	-.2486	-.2010
120.000						-.5278								-.2187	
130.000						-.6940								.0000	
140.000						-.7610								-.2353	
150.000						-.6989								-.2451	
160.000						-.6699								-.2468	
170.000						-.6187								-.2418	
180.000						-.5812	-.4480	-.4254	-.4136	-.4082	-.3823	-.3706	-.2695	-.2262	-.1558

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1706	-.1488	-.1348	-.1102	-.0874	.0548	.0000	.0000	.1325	.1093	.0921	.0315	-.0306	-.0745	-.1090
100.000	-.1854	-.1678	-.1474	-.1199	-.0711	.0568	.0939	.1197	.1356	.0948	.0956	.0377	-.0125	-.0340	-.1143
110.000	-.1754	-.1596	-.1312	-.1202	-.0718	.0324	.0683	.1045	.1184	.1096	.0912	.0476	.0191	-.0192	-.0597
120.000						.0378								.0462	
130.000						-.0075								.0799	
140.000						-.0006								.0949	
150.000						.0090								.1075	
160.000						.0101								.1110	
170.000						.0179								.1064	
180.000	-.1182	-.1011	-.0751	-.0609	-.0255	.0049	.0481	.0937	.1186	.1316	.1258	.1201	.1126	.1154	.1515

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0096		
70.000							-.0639	-.1502	.0000
80.000							-.0874	-.2149	-.2211
90.000	-.1555	.0537	-.0844	-.0491	-.0561	.0000	-.1012	-.2326	-.2193
100.000	-.1005	-.0558	-.0007	.0402	-.0116	-.0812			
110.000	-.0458	.0334	.1134	.1171	.0336	-.1144			
120.000						-.0038			
130.000						.1991			
140.000						.2096			
150.000						.2503			
160.000						.2669			
170.000						.3076			
180.000	.1833	.2458	.2906	.3265	.3706	.1139			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (S) = 1.103 ALPHA (8) = 6.583

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0350	.0315	-.0896												
70.000	.0875	.0839	-.0147												
80.000	.0755	.0820	.0304												
90.000			.0571	-.2022	-.4629	-.4122	-.3087	-.3067	-.3093	-.3263	-.3057	-.3103	.0000	-.2594	-.2360
100.000						-.4871	-.3692	-.3560	-.3430	-.3464	-.3349	-.3570	-.2903	-.2954	-.1995
110.000						-.5495	-.4926	-.4172	-.4091	-.4297	-.4078	-.3371	-.2745	-.2700	-.1963
120.000						-.5133								-.2153	
130.000						-.6880								.0000	
140.000						-.7774								-.2042	
150.000						-.7161								-.2042	
160.000						-.6867								-.2041	
170.000						-.6352								-.1970	
180.000						-.5931	-.4638	-.4421	-.4274	-.4186	-.3856	.3259	-.2231	-.1861	-.1122

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1703	-.1698	-.1527	-.1262	-.0869	.0275	.0000	.0000	.1322	.0901	.0693	.0200	-.0510	-.0986	-.1337
100.000	-.1808	-.1836	-.1625	-.1346	-.0916	.0182	.0899	.1164	.1302	.0686	.0742	.0262	-.0278	-.0549	-.1390
110.000	-.1869	-.1676	-.1480	-.1342	-.0999	.0041	.0779	.1080	.1056	.0923	.0711	.0229	-.0046	-.0473	- 0875
120.000						.0074								.0255	
130.000						.0131								.0602	
140.000						.0177								.0695	
150.000						.0299								.0934	
160.000						.0200								.0987	
170.000						.0238								.0943	
180.000	-.0945	-.0785	-.0571	-.0508	-.0244	.0259	.0569	.0961	.1193	.1413	.1231	.1162	.1054	.1058	.1303

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0199		
70.000							-.0745	-.1577	.0000
80.000							-.0999	-.2241	-.2407
90.000	-.1790	.0277	-.1101	-.0738	-.0821	.0000	-.1208	-.2384	-.2440
100.000	-.1240	-.0986	-.0168	.0255	-.0283	-.1157			
110.000	-.0791	.0055	.1091	.1091	.0175	-.1346			
120.000						.0161			
130.000						.2004			
140.000						.1858			
150.000						.2427			
160.000						.2835			
170.000						.3164			
180.000	.1585	.2282	.2877	.3323	.3874	.1141			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (9) = 1.105 ALPHA (9) = 8.682

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0163	-.0214	-.0822												
70.000	.0449	.0447	.0010												
80.000	.0236	.0479	.0449												
90.000			.0692	-.1833	-.4492	-.3390	-.2984	-.2892	-.2728	-.2819	-.2790	-.2873	.0000	-.2634	-.2853
100.000						-.4288	-.3366	-.3419	-.3182	-.3054	-.3012	-.3411	-.3093	-.3419	-.2476
110.000						-.5275	-.4036	-.4084	-.3923	-.3987	-.3891	-.3662	-.3377	-.3383	-.2313
120.000						-.5092								-.2397	
130.000						-.6954								.0000	
140.000						-.8071								-.1895	
150.000						-.7448								-.1820	
160.000						-.7135								-.1732	
170.000						-.6657								-.1679	
180.000						-.6139	-.4846	-.4645	-.4427	-.4220	-.3644	-.2949	-.1985	-.1549	-.0827

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2119	-.1968	-.1700	-.1492	-.1001	.0095	.0000	.0000	.1303	.0758	.0390	-.0192	-.0722	-.1123	-.1586
100.000	-.2074	-.2064	-.1809	-.1525	-.1046	-.0060	.0973	.1186	.1210	.0471	.0445	-.0133	-.0519	-.0735	-.1699
110.000	-.2079	-.1863	-.1617	-.1488	-.1099	-.0104	.0784	.0981	.0922	.0613	.0332	-.0065	-.0243	-.0693	-.1238
120.000						.0135								.0091	
130.000						.0241								.0376	
140.000						.0334								.0383	
150.000						.0336								.0660	
160.000						.0283								.0762	
170.000						.0401								.0751	
180.000	-.0869	-.0586	-.0390	-.0332	-.0098	.0347	.0856	.1050	.1256	.1423	.1245	.1128	.0944	.0900	.1077

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0426		
70.000							-.1024	-.1709	.0000
80.000							-.1329	-.2370	-.2620
90.000	-.2088	-.0036	-.1548	-.1055	-.1092	.0000	-.1542	-.2525	-.2680
100.000	-.1551	-.1412	-.0472	.0045	-.0501	-.1411			
110.000	-.1208	-.0360	.0885	.0948	.0108	-.1494			
120.000						.0229			
130.000						.1904			
140.000						.1654			
150.000						.2224			
160.000						.3108			
170.000						.3253			
180.000	.1236	.2087	.2734	.3335	.4103	.1139			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.149 ALPHA (1) = -8.342

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3568	.3015	.0377												
70.000	.4216	.3212	.1159												
80.000	.4642	.2865	.1323												
90.000			.0775	-.1937	-.4068	-.4302	-.4307	-.4258	-.3828	-.2857	-.1210	-.0456	.0000	.0185	.0141
100.000						-.4499	-.4460	-.4330	-.4166	-.3180	-.1595	-.0702	-.0226	-.0186	.0072
110.000						-.5494	-.5031	-.4689	-.4030	-.3306	-.2400	-.1063	-.0514	-.0472	-.0250
120.000						-.3531								-.1352	
130.000						-.3966								.0000	
140.000						-.3803								-.1498	
150.000						-.3131								-.1350	
160.000						-.2343								-.1319	
170.000						-.1712								-.1328	
180.000						-.1289	-.0526	-.0613	-.0643	-.0910	-.0808	-.1185	-.1154	-.1187	-.1130

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0256	.0172	.0297	.0337	.0366	.0803	.0000	.0000	.2269	.2401	.2526	.2431	.2321	.2352	.2569
100.000	.0083	.0092	.0083	.0234	.0319	.0575	.1084	.1865	.2152	.2150	.2407	.2309	.2396	.2496	.2558
110.000	-.0097	-.0074	-.0026	-.0008	.0074	.0390	.0876	.1594	.1907	.2048	.2193	.2270	.2376	.2471	.2676
120.000						.0181								.2765	
130.000						.0114								.2836	
140.000						.0189								.2871	
150.000						.0410								.2935	
160.000						.0362								.2977	
170.000						.0478								.2904	
180.000	-.1105	-.0961	-.0276	.0074	.0406	.0505	.0459	.0613	.0521	.1180	.1994	.2398	.2677	.3037	.3582

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1749		
70.000							.1318	.0487	.0000
80.000							.1177	.0219	.0448
90.000	.2599	.3202	.2860	.2653	.2343	.0000	.1016	.0383	.0485
100.000	.2860	.3082	.3081	.3026	.2520	.1789			
110.000	.3028	.3385	.3547	.3358	.2375	.0893			
120.000						.0117			
130.000						.2709			
140.000						.4371			
150.000						.5146			
160.000						.5235			
170.000						.5849			
180.000	.4199	.4879	.5333	.6103	.6595	.4194			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (B) = 1.155 ALPHA (B) = -8.220

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3442	.2852	.0396												
70.000	.4119	.3137	.1135												
80.000	.4433	.2818	.1363												
90.000			.0879	-.1836	-.4044	-.4290	-.4366	-.4264	-.3851	-.3135	-.1519	-.0666	.0000	.0017	.0334
100.000						-.4536	-.4478	-.4408	-.4257	-.3383	-.1716	-.0817	-.0402	-.0252	.0133
110.000						-.5455	-.5006	-.4731	-.4308	-.3528	-.2410	-.1252	-.0548	-.0504	-.0119
120.000						-.3618								-.1171	
130.000						-.4377								.0000	
140.000						-.4266								-.1714	
150.000						-.3677								-.1585	
160.000						-.3076								-.1559	
170.000						-.2234								-.1536	
180.000						-.1940	-.1015	-.1047	-.1070	-.1259	-.1134	-.1607	-.1507	-.1418	-.1231

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	.0443	.036	.0381	.0367	.0497	.0926	.0000	.0000	.2441	.2531	.2375	.2081	.1796	.1730	.2046
100.000	.0237	.0189	.0259	.0061	.0347	.0714	.1149	.1866	.2264	.2374	.2251	.2015	.1920	.1935	.2083
110.000	.0007	.0100	.0063	.0052	.0067	.0601	.0839	.1644	.1938	.2253	.2107	.1935	.1964	.1940	.2272
120.000						.0403								.2300	
130.000						-.0100								.2362	
140.000						-.0024								.2412	
150.000						.0339								.2472	
160.000						.0334								.2512	
170.000						.0458								.2432	
180.000	-.1287	-.1000	-.0328	.0125	.0445	.0381	.0522	.0990	.1416	.2171	.1968	.2103	.2253	.2538	.3277

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1034		
70.000							.1258	.0900	.0000
80.000							.1024	-.0164	.0041
90.000	.2024	.2857	.2500	.2363	.2055	.0000	.0862	.0003	.0067
100.000	.2418	.2899	.2848	.2788	.2244	.1589			
110.000	.2862	.3068	.3354	.3236	.2288	.0844			
120.000						.0277			
130.000						.2779			
140.000						.4162			
150.000						.4916			
160.000						.4972			
170.000						.5548			
180.000	.3893	.4547	.5191	.5755	.6246	.4134			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (6) = 1.150 ALPHA (3) = -4.057

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3203	.2689	.0316												
70.000	.3855	.2951	.1072												
80.000	.4070	.2701	.1278												
90.000			.0912	-.1814	-.4161	-.4310	-.4331	-.4144	-.3586	-.3109	-.1632	-.0701	.0000	-.0264	.0090
100.000						-.4559	-.4455	-.4464	-.4165	-.3396	-.1645	-.0831	-.0553	-.0540	-.0081
110.000						-.5379	-.4992	-.4787	-.4496	-.3637	-.2122	-.1206	-.0787	-.0618	-.0137
120.000						-.3769								-.0938	
130.000						-.4821								.0000	
140.000						-.4759								-.1827	
150.000						-.4189								-.1936	
160.000						-.3605								-.1950	
170.000						-.2793								-.1947	
180.000						-.2502	-.1564	-.1530	-.1502	-.1657	-.1542	-.2021	-.1918	-.1885	-.1646

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0139	.0094	.0130	.0198	.0499	.1103	.0000	.0000	.2041	.2008	.1908	.1563	.1180	.1027	.1189
100.000	-.0041	-.0077	.0032	.0230	.0528	.0836	.0960	.1596	.1897	.1804	.1948	.1594	.1333	.1306	.1263
110.000	-.0035	-.0046	-.0008	.0110	.0252	.0728	.0733	.1291	.1713	.1687	.1713	.1560	.1516	.1410	.1612
120.000						.0712								.1729	
130.000						-.0102								.1791	
140.000						-.0100								.1855	
150.000						.0188								.1890	
160.000						.0195								.1937	
170.000						.0155								.1871	
180.000	-.1323	-.0607	-.0148	.0245	.0466	.0226	.0288	.0639	.0735	.1229	.1527	.1689	.1749	.1988	.2839

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1388		
70.000							.1007	.0005	.0000
80.000							.0774	-.0412	-.0300
90.000	.1153	.2161	.1881	.1824	.1668	.0000	.0617	-.0368	-.0314
100.000	.1614	.1969	.2189	.2275	.1805	.1322			
110.000	.2028	.2532	.2887	.2827	.2020	.0674			
120.000						.0295			
130.000						.2747			
140.000						.3858			
150.000						.4589			
160.000						.4607			
170.000						.5070			
180.000	.3437	.4086	.4717	.5213	.5746	.3774			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE6004)

MACH (6) = 1.155 ALPHA (4) = -2.002

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.2723	.2422	.0319												
70.000	.3281	.2779	.1028												
80.000	.3513	.2571	.1241												
90.000			.1002	-.1726	-.4063	-.4138	-.4231	-.3805	-.3145	-.2701	-.1907	-.0794	.0000	.0220	.0325
100.000						-.4388	-.4364	-.4337	-.3671	-.2970	-.1749	-.0743	-.0267	-.0211	.0325
110.000						-.5185	-.4888	-.4683	-.4372	-.3318	-.1606	-.1002	-.0415	-.0358	.0258
120.000						-.3820								-.0783	
130.000						-.5032								.0000	
140.000						-.5087								-.1372	
150.000						-.4543								-.1519	
160.000						-.3998								-.1754	
170.000						-.3185								-.1670	
180.000						-.2923	-.1924	-.1873	-.1855	-.1941	-.1770	-.1978	-.1805	-.1767	-.1342

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0633	.0382	.0321	.0203	.0658	.1001	.0000	.0000	.2249	.2129	.1893	.1477	.0953	.0574	.0754
100.000	.0498	.0356	.0190	-.0020	.0544	.0890	.1796	.2019	.2183	.1994	.1935	.1511	.1062	.0911	.0775
110.000	.0309	.0372	.0221	.0103	.0389	.0809	.1747	.1787	.2009	.2081	.1842	.1553	.1276	.1038	.1194
120.000						.0680								.1393	
130.000						.1103								.1511	
140.000						.1089								.1557	
150.000						.1392								.1560	
160.000						.1087								.1586	
170.000						.1143								.1542	
180.000	-.0911	-.0203	.0234	.0493	.0711	.1192	.1658	.1098	.1743	.1952	.1759	.1613	.1551	.1622	.2402

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1105		
70.000							.0679	-.0262	.0000
80.000							.0456	-.0725	-.0602
90.000	.0391	.1784	.1292	.1475	.1334	.0000	.0271	-.0709	-.0560
100.000	.0948	.1564	.1780	.2084	.1540	.0777			
110.000	.1457	.2189	.2609	.2529	.1622	.0358			
120.000						.0264			
130.000						.2704			
140.000						.3622			
150.000						.4179			
160.000						.4195			
170.000						.4671			
180.000	.3084	.3615	.4478	.4997	.5302	.3420			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (M) = 1.152 ALPHA (S) = .158

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2339	.2026	-.0286												
70.000	.2745	.2350	.0819												
80.000	.2850	.2151	.1176												
90.000			.1016	-.1628	-.4032	-.4077	-.3997	-.3342	-.2522	-.2661	-.1882	-.1173	.0000	-.0228	-.0099
100.000						-.4482	-.4408	-.4155	-.3271	-.2744	-.1922	-.1035	-.0347	-.0447	-.0099
110.000						-.5197	-.4974	-.4611	-.4308	-.2968	-.1694	-.0802	-.0603	-.0501	-.0141
120.000						-.4154								-.0442	
130.000						-.5408								.0000	
140.000						-.5595								-.1032	
150.000						-.5028								-.1311	
160.000						-.4568								-.1694	
170.000						-.3827								-.1942	
180.000						-.3512	-.2518	-.2322	-.2783	-.2287	-.2083	-.2324	-.2038	-.1909	-.0666

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0324	.0576	.0221	.0808	.0893	.1223	.0000	.0000	.2165	.1806	.1729	.1310	.0747	.0406	.0135
100.000	.0001	.0284	.0222	.0532	.0667	.1242	.1508	.1757	.2165	.1635	.1800	.1328	.0968	.0709	.0188
110.000	.0226	.0441	.0370	.0427	.0501	.0930	.1304	.1694	.1788	.1806	.1819	.1287	.1194	.0840	.0502
120.000						.0782								.1195	
130.000						.0901								.1405	
140.000						.1165								.1476	
150.000						.1346								.1467	
160.000						.1022								.1540	
170.000						.1320								.1471	
180.000	-.0418	.0093	.0487	.0813	.0895	.1231	.0914	.1384	.1317	.1562	.1687	.1587	.1574	.1534	.2009

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0824		
70.000							.0370	-.0550	.0000
80.000							.0145	-.1097	-.0999
90.000	-.0323	.1101	.0410	.0698	.0649	.0000	-.0047	-.1231	-.0900
100.000	.0181	.0614	.1086	.1313	.0850	.0279			
110.000	.0719	.1327	.1995	.1880	.1254	-.0140			
120.000						.0387			
130.000						.2512			
140.000						.3265			
150.000						.3711			
160.000						.3697			
170.000						.4142			
180.000	.2360	.3279	.3910	.4243	.4713	.2695			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (6) = 1.150 ALPHA (6) = 2.294

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2149	.1722	-.0566												
70.000	.2704	.1893	.0272												
80.000	.2599	.1838	.0657												
90.000			.0825	-.1943	-.4674	-.4817	-.4359	-.2844	-.2359	-.2573	-.2190	-.1786	.0000	-.0481	-.0229
100.000						-.5086	-.4718	-.4528	-.3013	-.2590	-.2103	-.2190	-.0691	-.0687	-.0148
110.000						-.5617	-.5321	-.5250	-.4716	-.3109	-.2124	-.0846	-.0596	-.0741	-.0151
120.000						-.4678								-.0546	
130.000						- 5968								.0000	
140.000						-.6322								-.1036	
150.000						-.5780								-.1248	
160.000						-.5594								-.2037	
170.000						-.5141								-.2312	
180.000						-.4826	-.3208	-.3361	-.3154	-.3036	-.2498	-.2330	-.1829	-.2254	-.0787

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0229	.0425	.0660	.1217	.1819	.1621	.0000	.0000	.2518	.2162	.1715	.1196	.0599	.0234	-.0771
100.000	.0136	.0267	.0645	.1204	.1690	.1699	.2209	.2369	.2478	.2084	.1775	.1280	.0800	.0587	-.0222
110.000	-.0002	.0283	.0607	.1273	.1426	.1827	.2246	.2287	.2326	.2226	.1731	.1318	.1063	.0712	.0185
120.000						.1950								.1114	
130.000						.0967								.1355	
140.000						.1016								.1478	
150.000						.1289								.1491	
160.000						.1529								.1595	
170.000						.1867								.1622	
180.000	.0303	.0713	.1062	.1299	.1393	.1593	.1935	.2189	.2071	.2160	.1771	.1817	.1713	.1784	.2037

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0760		
70.000							.0238	-.0611	.0000
80.000							.0042	-.1228	-.1140
90.000	-.0642	.1024	.0148	.0628	.0700	.0000	-.0133	-.1451	-.1065
100.000	-.0189	.0257	.0930	.1436	.0948	.0102			
110.000	.0313	.0982	.1982	.2201	.1249	-.0242			
120.000						.0477			
130.000						.2577			
140.000						.2849			
150.000						.3308			
160.000						.3366			
170.000						.3800			
180.000	.2576	.3301	.3852	.4213	.4438	.2500			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (6) = 1.146 ALPHA (7) = 4.410

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1718	.1563	-.0525												
70.000	.2301	.1950	.0559												
80.000	.2272	.1762	.1161												
90.000			.1006	-.1432	-.3933	-.3370	-.5169	-.3504	-.2691	-.2429	-.2319	-.2336	.0000	-.0917	-.1191
100.000						-.4328	-.5074	-.5207	-.3610	-.2878	-.2561	-.2584	-.1095	-.1348	-.1297
110.000						-.4855	-.5483	-.5638	-.5479	-.3893	-.3147	-.1430	-.0813	-.1273	-.1261
120.000						-.4239								-.0875	
130.000						-.5894								.0000	
140.000						-.6635								-.1295	
150.000						-.5993								-.1401	
160.000						-.5664								-.1728	
170.000						-.5029								-.1459	
180.000						-.4597	-.3997	-.4073	-.4084	-.4139	-.3940	-.2557	-.1142	-.1239	-.0688

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0980	.0238	.1246	.1937	.2412	.2628	.0000	.0000	.1451	.1074	.1525	.1032	.0499	.0153	-.0976
100.000	-.0984	.0116	.0998	.1285	.2315	.2518	.1063	.1226	.1372	.0313	.1498	.1039	.0681	.0535	-.1005
110.000	-.5099	.0364	.0819	.1782	.2136	.2302	.0806	.1074	.1180	.1030	.1412	.1174	.1026	.0674	-.0579
120.000						.2114								.1260	
130.000						.0625								.1523	
140.000						.0826								.1680	
150.000						.0924								.1974	
160.000						.0884								.1923	
170.000						.0898								.1945	
180.000	.0758	.1043	.1254	.1588	.1966	.0302	.0685	.0873	.1045	.1149	.1800	.1839	.1910	.2243	.1408

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0459		
70.000							-.0031	-.0835	.0000
80.000							-.0210	-.1470	-.1581
90.000	-.1405	.0331	-.0456	-.0223	-.0217	.0000	-.0358	-.1608	-.1507
100.000	-.0975	-.0751	.0391	.0763	.0180	-.0333			
110.000	-.0662	.0558	.1473	.1434	.1005	-.0564			
120.000						.0433			
130.000						.2397			
140.000						.2401			
150.000						.2809			
160.000						.3074			
170.000						.3607			
180.000	.1853	.2763	.3231	.3619	.4167	.2129			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (6) = 1.147 ALPHA (8) = 6.525

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1061	.1034	.0275												
70.000	.1480	.1713	.0809												
80.000	.1510	.1692	.1136												
90.000			.1347	-.1300	-.3545	-.2987	-.2120	-.2070	-.1520	-.1953	-.1777	-.1844	.0000	-.2050	-.1302
100.000						-.3136	-.3802	-.3363	-.2055	-.2117	-.1979	-.2141	-.2363	-.2393	-.1046
110.000						-.3922	-.5201	-.5106	-.2698	-.2929	-.2635	-.2762	-.2118	-.2104	-.0904
120.000						-.4155								-.1466	
130.000						-.5999								.0000	
140.000						-.6854								-.1420	
150.000						-.6266								-.0262	
160.000						-.5995								-.0648	
170.000						-.5460								-.0844	
180.000						-.5144	-.4255	-.3845	-.3759	-.3313	-.2956	-.2700	-.1701	-.0625	.0206

X/L	.4500	.4690	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0754	-.0130	.0328	.0784	.0862	.1717	.0000	.0000	.1484	.1067	.1143	.0705	.0003	-.0406	-.0923
100.000	-.0720	-.0248	.0322	.0907	.1147	.1604	.0772	.1242	.1445	.0799	.1187	.0779	.0230	-.0077	-.0976
110.000	-.0364	-.0078	.0389	.0696	.1338	.1343	.0526	.1137	.1216	.0927	.1170	.0750	.0406	-.0090	-.0519
120.000						.1593								.0504	
130.000						.0206								.0833	
140.000						.0297								.0966	
150.000						.0270								.1097	
160.000						.0328								.1192	
170.000						.0224								.1100	
180.000	.0826	.1144	.1245	.1088	.1521	.0227	.0303	.0835	.1125	.1421	.1649	.1474	.1343	.1275	.1636

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0048		
70.000							-.0514	-.1133	.0000
80.000							-.0778	-.1814	-.2066
90.000	-.1456	.0301	-.1099	-.0784	-.0771	.0000	-.0896	-.2055	-.2114
100.000	-.0875	-.0620	-.0165	.0274	-.0161	-.0721			
110.000	-.0491	.0391	.1218	.1163	.0701	-.0834			
120.000						.0537			
130.000						.2312			
140.000						.2135			
150.000						.2664			
160.000						.3030			
170.000						.3494			
180.000	.1879	.2934	.3039	.3465	.4113	.1879			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (RE8004)

MACH (6) = 1.150 ALPHA (9) = 8.669

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1107	.1204	.0294												
70.000	.1577	.1740	.0714												
80.000	.1433	.1661	.1104												
90.000			.1545	-.0970	-.2654	-.2996	-.2387	-.1716	-.1514	-.1753	-.1662	-.1787	.0000	-.1825	-.1644
100.000						-.3019	-.3089	-.2491	-.1833	-.1796	-.2049	-.2234	-.2380	-.2373	-.1299
110.000						-.3323	-.3538	-.3410	-.2780	-.2743	-.2751	-.2584	-.2523	-.2147	-.1198
120.000						-.3861								-.1556	
130.000						-.6075								.0000	
140.000						-.7123								-.0815	
150.000						-.6476								-.1012	
160.000						-.6244								-.0606	
170.000						-.5770								-.0372	
180.000						-.5288	-.3841	-.3516	-.3096	-.2844	-.2520	-.1916	-.1068	-.0250	.0362

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0892	-.0898	-.0665	-.0584	-.0237	.0385	.0000	.0000	.1498	.0944	.0551	-.0005	-.0625	-.0956	-.1482
100.000	-.0994	-.0894	-.1000	-.0597	-.0178	.0423	.1183	.1315	.1448	.0660	.0497	.0017	-.0429	-.0605	-.1593
110.000	-.0881	-.0819	-.0919	-.0890	-.0387	.0402	.1013	.1050	.1173	.0842	.0360	-.0052	-.0214	-.0583	-.1135
120.000						.0884								.0061	
130.000						.0369								.0367	
140.000						.0507								.0445	
150.000						.0286								.0603	
160.000						.0247								.0689	
170.000						.0385								.0655	
180.000	.0357	.0438	.0382	.0330	.0198	.0408	.0495	.1108	.1254	.1498	.1258	.1087	.0886	.0833	.1270

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0155		
70.000							-.0865	-.1367	.0000
80.000							-.1166	-.1946	-.2370
90.000	-.2050	-.0380	-.1614	-.1093	-.0984	.0000	-.1465	-.2281	-.2568
100.000	-.1510	-.1581	-.0625	.0073	-.0296	-.1138			
110.000	-.1343	-.0543	.0810	.1062	.0359	-.1232			
120.000						.0634			
130.000						.2304			
140.000						.2140			
150.000						.2656			
160.000						.3534			
170.000						.3610			
180.000	.0982	.2048	.2771	.3438	.4372	.1674			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (7) = 1.250 ALPHA (1) = -8.410

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3569	.3205	.0869												
70.000	.4178	.3481	.1641												
80.000	.4701	.3173	.1857												
90.000			.1480	-.1077	-.3266	-.3566	-.3607	-.3668	-.3579	-.3600	-.2889	-.1835	.0000	-.0839	-.0757
100.000						-.3715	-.3745	-.3722	-.3728	-.3537	-.2907	-.225	-.1298	-.1166	-.0779
110.000						-.4594	-.4221	-.4080	-.3756	-.3353	-.2926	-.2293	-.1806	-.1613	-.1024
120.000						-.3073								-.1962	
130.000						-.3591								.0000	
140.000						-.3447								-.1554	
150.000						-.2973								-.1426	
160.000						-.2567								-.1419	
170.000						-.1928								-.1380	
180.000						-.1848	-.0855	-.0782	-.0823	-.1018	-.0857	-.1208	-.1145	-.1259	-.1263

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0447	-.0457	-.0422	-.0447	-.0466	-.0612	.0000	.0000	.0024	.0422	.0531	.0303	.0175	.0163	.0173
100.000	-.0683	-.0833	-.0571	-.0553	-.0536	-.0667	-.0674	-.0476	-.0139	.0072	.0368	.0221	.0131	.0190	.0113
110.000	-.0874	-.0798	-.0755	-.0776	-.0772	-.0801	-.0745	-.0662	-.0379	-.0033	.0153	.0095	.0076	.0047	.0083
120.000						-.07 3								.0047	
130.000						-.0991								-.0041	
140.000						-.1006								-.0142	
150.000						-.0715								-.0187	
160.000						-.0793								-.0176	
170.000						-.0755								-.0358	
180.000	-.1329	-.1381	-.1213	-.1259	-.1070	-.0809	-.0753	-.0701	-.0679	-.0374	-.0431	-.0427	-.0377	-.0246	-.0047

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1805		
70.000							.1472	.0650	.0000
80.000							.1227	.0246	.0522
90.000	.0213	.0581	.1128	.1374	.1459	.0000	.0932	.0228	.0547
100.000	.0369	.1060	.1568	.1949	.1798	.1028			
110.000	.0484	.1496	.2111	.2162	.1357	.0404			
120.000						.0159			
130.000						.2975			
140.000						.4595			
150.000						.5418			
160.000						.5359			
170.000						.5504			
180.000	-.0008	.3163	.4621	.5314	.5786	.5039			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (FEB004)

MACH (7) = 1.250 ALPHA (2) = -6.311

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3178	.2962	.0792												
70.000	.3857	.3245	.1553												
80.000	.4281	.3014	.1779												
90.000			.1503	-.1075	-.3304	-.3591	-.3690	-.3727	-.3621	-.3706	-.3141	-.2125	.0000	-.1088	-.1018
100.000						-.3743	-.3796	-.3824	-.3835	-.3704	-.3137	-.2461	-.1470	-.1354	-.1037
110.000						-.4502	-.4245	-.4153	-.3937	-.3656	-.3118	-.2434	-.1862	-.1649	-.1172
120.000						-.3153								-.2075	
130.000						-.3949								.0000	
140.000						-.3889								-.1841	
150.000						-.3409								-.1736	
160.000						-.3054								-.1746	
170.000						-.2494								-.1747	
180.000						-.2376	-.1364	-.1231	-.1251	-.1424	-.1222	-.1569	-.1490	-.1621	-.1596

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0737	-.0833	-.0550	-.0575	-.0584	-.0739	.0000	.0000	-.0245	.0155	.0369	.0121	-.0024	-.0054	-.0112
100.000	-.0902	-.0827	-.0727	-.0677	-.0643	-.0771	-.0850	-.0675	-.0355	-.0128	.0275	.0102	-.0026	.0047	-.0152
110.000	-.0994	-.0913	-.0827	-.0834	-.0804	-.0875	-.0899	-.0812	-.0649	-.0322	-.0012	-.0002	-.0019	-.0093	-.0165
120.000						-.0821								-.0055	
130.000						-.1115								-.0104	
140.000						-.1158								-.0258	
150.000						-.0890								-.0308	
160.000						-.0963								-.0353	
170.000						-.0921								-.0514	
180.000	-.1564	-.1601	-.1438	-.1427	-.1185	-.0977	-.0952	-.0940	-.0923	-.0601	-.0622	-.0630	-.0590	-.0417	-.0352

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1487		
70.000							.1177	.0394	.0000
80.000							.0910	-.0051	.0139
90.000	-.0279	.0274	.0828	.0981	.1045	.0000	.0665	-.0269	.0215
100.000	.0062	.0812	.1255	.1510	.1410	.0549			
110.000	.0282	.1252	.1846	.1846	.1136	.0124			
120.000						.0261			
130.000						.2974			
140.000						.4299			
150.000						.5024			
160.000						.4927			
170.000						.5072			
180.000	-.0069	.2865	.4189	.4797	.5267	.4777			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE

MACH (7) = 1.250 ALPHA (3) = -4.112

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2810	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2717	.2453	.0724												
70.000	.3511	.2813	.1478												
80.000	.3768	.2621	.1729												
90.000			.1553	-.1044	-.1374	-.3618	-.3736	-.3752	.3626	-.3715	-.3175	-.2382	.0000	-.1429	-.1760
100.000						-.3797	-.3835	-.3883	.3906	-.3787	-.3306	-.2543	-.1649	-.1575	-.1262
110.000						-.4473	-.4255	-.4210	-.4081	-.3856	-.3313	-.2495	-.1807	-.1647	-.1241
120.000						-.3289								-.2086	
130.000						-.4262								.0000	
140.000						-.4351								-.2056	
150.000						-.3836								-.1965	
160.000						-.3583								-.1988	
170.000						-.3105								-.1944	
180.000						-.2986	-.1915	-.1729	-.1697	-.1628	-.1639	-.1945	-.1956	-.1914	-.1827

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1017	-.0875	-.0701	-.0704	-.0723	-.0897	.0000	.0000	-.0464	-.0004	.0268	.0097	-.0047	-.0105	-.0220
100.000	-.1136	-.1064	-.0900	-.0798	-.0764	-.0939	-.1011	-.0935	-.0623	-.0380	.0127	.0100	-.0031	.0074	-.0227
110.000	-.1127	-.1067	-.0951	-.0895	-.0847	-.0944	-.0960	-.0922	-.0779	-.0441	-.0102	.0025	-.0012	-.0007	-.0097
120.000						-.0870								-.0062	
130.000						-.1158								-.0159	
140.000						-.1229								-.0294	
150.000						-.0985								-.0379	
160.000						-.1035								-.0448	
170.000						-.1000								-.0677	
180.000	-.1784	-.1777	-.1568	-.1517	-.1215	-.1030	-.1044	-.1012	-.0971	-.0685	-.0699	-.0719	-.0634	-.0625	-.0440

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.8800	.9400
PHI									
60.000							.1140		
70.000							.0801	.0089	.0000
80.000							.0572	-.0369	-.0248
90.000	-.0531	-.0149	.0342	.0561	.0548	.0000	.0230	-.0588	-.0200
100.000	-.0240	.0314	.0889	.1184	.0855	.0068			
110.000	.0022	.0839	.1567	.1713	.0898	-.0146			
120.000						.0372			
130.000						.2950			
140.000						.3961			
150.000						.4538			
160.000						.4470			
170.000						.4655			
180.000	-.0117	.2605	.3762	.4364	.4786	.4373			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (7) = 1.250 ALPHA (4) = -2.036

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2010	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2234	.2120	.0313												
70.000	.2818	.2515	.1126												
80.000	.3225	.2352	.1487												
90.000			.1441	-.1205	-.3585	-.3780	-.3900	-.3802	-.3544	-.3604	-.2961	-.2449	.0000	-.1584	-.1538
100.000						-.4001	-.3990	-.4052	-.3861	-.3788	-.3279	-.2460	-.1715	-.1706	-.1391
110.000						-.4610	-.4386	-.4361	-.4260	-.4002	-.3463	-.2478	-.1686	-.1637	-.1367
120.000						-.3536								-.1979	
130.000						-.4582								.0000	
140.000						-.4766								-.2287	
150.000						-.4245								-.2268	
160.000						-.4026								-.2345	
170.000						-.3711								-.2377	
180.000						-.3493	-.2434	-.2218	-.2181	-.2338	-.2147	-.2316	-.2233	-.2275	-.2161

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1195	-.1113	-.0875	-.0867	-.0899	-.1073	.0000	.0000	-.0452	-.0055	.0149	.0012	-.0109	-.0118	-.0358
100.000	-.1306	-.1263	-.1052	-.0950	-.0914	-.1083	-.1106	-.0974	-.0589	-.0327	.0127	.0029	-.0076	.0048	-.0362
110.000	-.1274	-.1217	-.1125	-.1039	-.0989	-.1054	-.1047	-.0942	-.0739	-.0428	-.0073	-.0071	.0012	.0026	-.0153
120.000						-.0964								-.0002	
130.000						-.1186								-.0048	
140.000						-.1210								-.0168	
150.000						-.0988								-.0313	
160.000						-.1002								-.0379	
170.000						-.0957								-.0564	
180.000	-.2093	-.1992	-.1636	-.1432	-.1148	-.0964	-.0971	-.0936	-.0902	-.0642	-.0682	-.0698	-.0654	-.0488	-.0259

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0686		
70.000							.0285	-.0293	.0000
80.000							.0097	-.0806	-.0655
90.000	-.0841	-.0276	-.0018	.0196	.0117	.0000	-.0228	-.0991	-.0675
100.000	-.0524	-.0034	.0645	.0942	.0745	-.0092			
110.000	-.0228	.0525	.1442	.1627	.0963	-.0274			
120.000						.0444			
130.000						.2896			
140.000						.3617			
150.000						.4038			
160.000						.3984			
170.000						.4148			
180.000	.0637	.2401	.3479	.3995	.4319	.3806			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (7) = 1.250 ALPHA (5) = .123

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1679	.1903	.0248												
70.000	.2203	.2355	.0988												
80.000	.2501	.2145	.1405												
90.000			.1496	-.1140	-.3707	-.4042	-.4191	-.4288	-.4095	-.3778	-.2853	-.2515	.0000	-.1645	-.1553
100.000						-.4141	-.4230	-.4341	-.4373	-.4284	-.3497	-.2540	-.1782	-.1761	-.1393
110.000						-.4605	-.4543	-.4608	- .67	-.4587	-.4120	-.2557	-.1714	-.1615	-.1342
120.000						-.3711								-.2007	
130.000						-.4865								.0000	
140.000						-.5203								-.2667	
150.000						-.4637								-.2644	
160.000						-.4437								-.2645	
170.000						-.4194								-.2732	
180.000						-.3930	-.2844	-.2604	-.2586	-.2688	-.2499	-.2717	-.2591	-.2669	-.2559

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1228	-.1149	-.0917	-.0856	-.0859	-.1017	.0000	.0000	-.0520	-.0118	.0039	-.0135	-.0407	-.0438	-.0574
100.000	-.1341	-.1348	-.1162	-.0994	-.0896	-.1113	-.1125	-.0995	-.0608	-.0383	.0031	-.0109	-.0326	-.0191	-.0569
110.000	-.1266	-.1237	-.1138	-.1050	-.1036	-.1108	-.1046	-.0954	-.0758	-.0392	-.0104	-.0135	-.0222	-.0236	-.0346
120.000						-.0994								-.0149	
130.000						-.1132								-.0096	
140.000						-.1134								-.0118	
150.000						-.0325								-.0189	
160.000						-.0925								-.0279	
170.000						-.0890								-.0354	
180.000	-.2481	-.2328	-.1776	-.1435	-.1104	-.0892	-.0869	-.0821	-.0772	-.0539	-.0603	-.0596	-.0541	-.0369	.0180

X/L	.7290	.7470	.7570	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0362		
70.000							.0038	-.0527	.0000
80.000							-.0178	-.1062	-.1065
90.000	-.1377	-.0189	-.0361	-.0166	-.0182	.0000	-.0466	-.1251	-.1044
100.000	-.0874	-.0396	.0277	.0612	.0261	-.0342			
110.000	-.0421	.0226	.1176	.1360	.0796	-.0390			
120.000						.0770			
130.000						.2745			
140.000						.3302			
150.000						.3545			
160.000						.3356			
170.000						.3553			
180.000	.0995	.2269	.2951	.3373	.3664	.2927			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (P) = 1.251 ALPHA (6) = 2.297

SECTION (1)ORD. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2050	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1367	.1357	.0031												
90.000	.1780	.1836	.0811												
80.000	.2018	.2192	.1309												
90.000			.1518	-.1080	-.3755	-.4121	-.4298	-.4381	-.4344	-.3774	-.2678	-.2388	.0000	-.1663	-.1455
100.000						-.4174	-.4310	-.4436	-.4514	-.4515	-.3456	-.2641	-.1828	-.1820	-.1297
110.000						-.4563	-.4690	-.4669	-.4699	-.4880	-.4485	-.2652	-.1820	-.1702	-.1276
120.000						-.3820								-.1835	
130.000						-.5069								.0000	
140.000						-.5563								-.2906	
150.000						-.4984								-.2918	
160.000						-.4781								-.2927	
170.000						-.4615								-.2986	
180.000						-.4309	-.3226	-.2950	-.2927	-.3053	-.2841	-.2981	-.2877	-.2928	-.2804

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1070	-.1033	-.0938	-.0951	-.0970	-.1125	.0000	.0000	-.0673	-.0298	-.0086	-.0290	-.0720	-.0564	-.0728
100.000	-.1144	-.1152	-.1036	-.1021	-.1026	-.1152	-.1210	-.1111	-.0720	-.0573	-.0093	-.0207	-.0555	-.0301	-.0723
110.000	-.1149	-.1077	-.1016	-.1098	-.1152	-.1323	-.1198	-.1080	-.0852	-.0462	-.0133	-.0157	-.0335	-.0351	-.0450
120.000						-.1149								-.0273	
130.000						-.0935								-.0136	
140.000						-.0912								.0021	
150.000						-.0704								.0007	
160.000						-.0682								-.0019	
170.000						-.0614								-.0159	
180.000	-.2737	-.2379	-.1624	-.1181	-.0818	-.0620	-.0611	-.0606	-.0625	-.0429	-.0488	-.0481	-.0391	-.0159	.0732

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0120		
90.000							-.0232	-.0688	.0000
80.000							-.0516	-.1264	-.1509
90.000	-.1321	-.0369	-.1009	-.0470	-.0303	.0000	-.0807	-.1522	-.1585
100.000	-.0886	-.1082	-.0585	.0515	.0308	-.0500			
110.000	-.0870	-.0539	.0717	.1487	.0940	-.0518			
120.000						.0761			
130.000						.2686			
140.000						.2476			
150.000						.2739			
160.000						.2890			
170.000						.3192			
180.000	.1326	.2052	.2530	.2925	.3258	.2542			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (P) = 1.250 ALPHA (P) = 4.332

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.1260	.1013	-.0235												
70.000	.1540	.1308	.0572												
80.000	.1506	.1186	.1135												
90.000			.1478	-.1064	-.3805	-.4169	-.4370	-.4441	-.4398	-.3680	-.2582	-.2223	.0000	-.1704	-.1524
100.000						-.4283	-.4338	-.4506	-.4580	-.4617	-.3427	-.2699	-.1945	-.1904	-.1319
110.000						-.4608	-.4630	-.4724	-.4778	-.5010	-.4713	-.2917	-.2015	-.1688	-.1315
120.000						-.3972								-.1921	
130.000						-.5307								.0000	
140.000						-.5934								-.3035	
150.000						-.5389								-.3201	
160.000						-.5153								-.3220	
170.000						-.5073								-.3309	
180.000						-.4723	-.3568	-.3286	-.3263	-.3341	-.3157	-.3326	-.3216	-.3252	-.3076

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1150	-.1127	-.1085	-.1107	-.1143	-.1264	.0000	.0000	-.0816	-.0418	-.0175	-.0329	-.0633	-.0723	-.0972
100.000	-.1184	-.1218	-.1207	-.1204	-.1183	-.1386	-.1424	-.1264	-.0861	-.0698	.0030	-.0233	-.0606	-.0398	-.1011
110.000	-.1132	-.1119	-.1151	-.1250	-.1315	-.1478	-.1429	-.1257	-.0981	-.0601	-.0176	-.0213	-.0424	- [illegible]	-.0748
120.000						-.1212								-. [illegible]	
130.000						-.1250								-. [illegible]	
140.000						-.0839								-. [illegible]	
150.000						-.0637								.0043	
160.000						-.0508								.0042	
170.000						-.0453								-.0026	
180.000	-.2841	-.2163	-.1325	-.0856	-.0551	-.0446	-.0475	-.0519	-.0543	-.0354	-.0414	-.0332	-.0209	.0033	.0603

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0219		
70.000							-.0616	-.0965	.0000
80.000							-.0937	-.1521	-.1780
90.000	-.1550	-.0579	-.1906	-.0877	-.0829	.0000	-.1232	-.1737	-.1841
100.000	-.1150	-.1581	-.0941	.0200	.0048	-.0722			
110.000	-.1037	-.1107	.0404	.1274	.0739	-.1654			
120.000						.0344			
130.000						.2564			
140.000						.2308			
150.000						.2362			
160.000						.2798			
170.000						.3222			
180.000	.1009	.1647	.2580	.2839	.3276	.2678			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (M) = 1.250 ALPHA (B) = 6.444

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1001	.0740	-.0819												
70.000	.1388	.0990	.0200												
80.000	.1241	.0716	.0887												
90.000			.1366	-.1035	-.3799	-.4188	-.4381	-.4429	-.4221	-.2683	-.2128	-.1999	.0000	-.1688	-.1844
100.000						-.4257	-.4371	-.4502	-.4590	-.3971	-.2632	-.2398	-.1936	-.2086	-.1654
110.000						-.4563	-.4650	-.4728	-.4798	-.4986	-.3814	-.2662	-.2079	-.2081	-.1631
120.000						-.3994								-.2013	
130.000						-.5409								.0000	
140.000						-.6159								-.2573	
150.000						-.5630								-.3101	
160.000						-.5414								-.3358	
170.000						-.5289								-.3494	
180.000						-.4998	-.3952	-.3664	-.3613	-.3687	-.3475	-.3552	-.3433	-.3445	-.3183

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1485	-.1481	-.1352	-.1415	-.1425	-.1560	.0000	.0000	-.0881	-.0798	.0061	-.0447	-.0711	-.0917	-.1246
100.000	-.1545	-.1638	-.1529	-.1516	-.1497	-.1701	-.1633	-.1440	-.0889	-.0758	.0121	-.0334	-.0585	-.0618	-.1327
110.000	-.1500	-.1490	-.1475	-.1619	-.1655	-.1822	-.1630	-.1457	-.1109	-.0599	.0036	-.0371	-.0551	-.0606	-.1075
120.000						-.1369								-.0424	
130.000						-.1199								-.0241	
140.000						-.0883								-.0134	
150.000						-.0575								-.0021	
160.000						-.0488								.0058	
170.000						-.0405								.0005	
180.000	-.2426	-.1478	-.0950	-.0669	-.0484	-.0405	-.0459	-.0492	-.0530	-.0352	-.0343	-.0270	-.0144	.0063	.0450

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0553		
70.000							-.0950	-.1147	.0000
80.000							-.1292	-.1825	-.2010
90.000	-.1787	-.0806	-.1944	-.1350	-.0941	.0000	-.1552	-.2104	-.2129
100.000	-.1385	-.1879	-.1381	-.0045	-.0219	-.0917			
110.000	-.1319	-.1451	.0128	.0890	.0533	-.0775			
120.000						.1023			
130.000						.2638			
140.000						.2179			
150.000						.2544			
160.000						.2739			
170.000						.3152			
180.000	.0885	.1700	.2398	.2919	.3377	.2638			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA83 (REB004)

AMES 64-630 PRESSURE VENTING - INTEG. VEHICLE

MACH (7) = 1.249 ALPHA (9) = 8.649

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1014	.0525	-.1234												
70.000	.1178	.0732	-.0567												
80.000	.1023	.0696	.0350												
90.000			.1129	-.1066	-.3853	-.4228	-.4404	-.4362	-.2487	-.1935	-.1783	-.1780	.0000	-.1665	-.2120
100.000						-.4304	-.4374	-.4538	-.4176	-.2487	-.2135	-.2169	-.2016	-.2384	-.2069
110.000						-.4527	-.4632	-.4729	-.4788	-.3835	-.2866	-.2516	-.2396	-.2573	-.2292
120.000						-.4079								-.2434	
130.000						-.5541								.0000	
140.000						-.6413								-.2263	
150.000						-.5909								-.2580	
160.000						-.5668								-.3054	
170.000						-.5495								-.3757	
180.000						-.5228	-.4188	-.3934	-.3909	-.3925	-.3716	-.3838	-.3661	-.3637	-.2466

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7130
PHI															
90.000	-.1795	-.1860	-.1783	-.1711	-.1667	-.1749	.0000	.0000	-.0796	-.0292	-.0124	-.0673	-.0955	-.1093	-.1496
100.000	-.2049	-.2054	-.1924	-.1822	-.1752	-.1933	-.1864	-.1489	-.0822	-.0513	-.0110	-.0584	-.0813	-.0815	-.1565
110.000	-.1996	-.1897	-.1848	-.1964	-.1970	-.2110	-.1923	-.1521	-.1099	-.0531	-.0262	-.0622	-.0815	-.0949	-.1363
120.000						-.1486								-.0570	
130.000						-.1241								-.0382	
140.000						-.1002								-.0218	
150.000						-.0569								-.0042	
160.000						-.0505								.0078	
170.000						-.0449								.0047	
180.000	-.1442	-.0902	-.0680	-.0571	-.0500	-.0460	-.0482	-.0548	-.0543	-.0319	-.0257	-.0108	-.0002	.0169	.0380

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0937		
70.000							-.1295	-.1369	.0000
80.000							-.1639	-.2031	-.2152
90.000	-.2009	-.0971	-.2269	-.1717	-.1125	.0000	-.1725	-.2371	-.2397
100.000	-.1598	-.2164	-.1659	-.0267	-.0453	-.1022			
110.000	-.1537	-.1661	-.0021	.0653	.0348	-.0878			
120.000						.1110			
130.000						.2520			
140.000						.1978			
150.000						.2425			
160.000						.2974			
170.000						.3234			
180.000	.0899	.1525	.2271	.2945	.3551	.2448			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.500 ALPHA (1) = -8.613

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3959	.3947	.1999												
70.000	.4389	.4234	.2821												
80.000	.4561	.4021	.3171												
90.000			.2997	.0565	-.1572	-.1982	-.2073	-.2269	-.2301	-.2038	-.1766	-.1446	.0000	-.0584	-.0303
100.000						-.2032	-.2198	-.2227	-.2360	-.2424	-.1805	-.1463	-.0962	-.0900	-.0412
110.000						-.2803	-.2691	-.2580	-.2441	-.2286	-.2055	-.1421	-.0968	-.0978	-.0639
120.000						-.1528								-.1005	
130.000						-.2007								.0000	
140.000						-.1960								-.0655	
150.000						-.1575								-.0553	
160.000						-.1425								-.0477	
170.000						-.1246								-.0386	
180.000						-.1009	-.0275	-.0022	.0045	-.0135	.0019	-.0276	-.0177	-.0266	-.0362

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0049	.0155	.0295	.0360	.0324	.0215	.0000	.0000	.0404	.0594	.0806	.0767	.0572	.0446	.0422
100.000	-.0148	-.0046	.0117	.0210	.0257	.0167	.0141	.0138	.0290	.0273	.0591	.0606	.0560	.0498	.0267
110.000	-.0377	-.0162	-.0033	.0032	.0068	.0032	.0057	.0081	.0094	.0184	.0317	.0404	.0505	.0492	.0251
120.000						-.0021								.0221	
130.000						-.0231								.0117	
140.000						-.0296								.0057	
150.000						-.0083								.0107	
160.000						-.0121								.0167	
170.000						-.0068								.0091	
180.000	-.0462	-.0458	-.0281	-.0292	-.0201	-.0103	-.0142	-.0190	-.0208	.0130	.0042	.0110	.0130	.0189	.0181

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1778		
70.000							.1432	.1018	.0000
80.000							.1052	.0445	.0448
90.000	.0206	.0128	.0712	.1168	.1197	.0000	.0755	.0232	.0392
100.000	.0342	.0347	.0945	.1722	.1759	.1319			
110.000	.0284	.0506	.1475	.2164	.1951	.0833			
120.000						.1484			
130.000						.4055			
140.000						.5041			
150.000						.5553			
160.000						.5406			
170.000						.5380			
180.000	.0153	.0293	.3170	.4514	.5108	.5432			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.500 ALPHA (2) = -6.366

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3408	.3373	.1851												
70.000	.3823	.3663	.2583												
80.000	.3926	.3668	.2961												
90.000			.2922	.0547	-.1682	-.2102	-.2188	-.2418	-.2531	-.2737	-.2310	-.1583	.0000	-.0854	-.0487
100.000						-.2134	-.2317	-.2367	-.2546	-.2691	-.2571	-.2107	-.1286	-.1062	-.0464
110.000						-.2795	-.2725	-.2688	-.2619	-.2544	-.2374	-.2115	-.1813	-.1570	-.0592
120.000						-.1707								-.1343	
130.000						-.2325								.0000	
140.000						-.2371								-.0995	
150.000						-.1956								-.0891	
160.000						-.1812								-.0850	
170.000						-.1717								-.0776	
180.000						-.1461	-.0712	-.0424	-.0353	-.0494	-.0353	-.0709	-.0628	-.0664	-.0695

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.0146	-.0054	.0048	.0058	.0100	-.0006	.0000	.0000	.0134	.0348	.0576	.0540	.0358	.0185	.0139
100.000	-.0266	-.0199	-.0082	-.0014	.0035	-.0067	-.0165	-.0081	.0056	.0051	.0382	.0470	.0356	.0315	.0063
110.000	-.0356	-.0238	-.0158	-.0142	-.0124	-.0194	-.0231	-.0145	-.0138	-.0049	.0097	.0162	.0287	.0209	.0031
120.000						-.0192								.0120	
130.000						-.0475								.0001	
140.000						-.0508								-.0058	
150.000						-.0386								-.0064	
160.000						-.0541								-.0003	
170.000						-.0594								-.0114	
180.000	-.0749	-.0739	-.0627	-.0679	-.0632	-.0653	-.0614	-.0526	-.0427	-.0092	-.0134	-.0112	-.0060	.0021	-.0087

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1272		
70.000							.0923	.0681	.0000
80.000							.0634	.0110	.0074
90.000	-.0083	-.0171	.0241	.0773	.0837	.0000	.0393	-.0106	-.0029
100.000	.0117	.0066	.0520	.1352	.1359	.0981			
110.000	.0075	.0188	.1111	.1916	.1798	.0687			
120.000						.1476			
130.000						.3903			
140.000						.4503			
150.000						.4916			
160.000						.4823			
170.000						.4781			
180.000	-.0078	.0092	.2783	.4056	.4632	.4919			

AMES 66-63? PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.499 ALPHA (3) = -4.338

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3267	.3039	.1619												
70.000	.3683	.3288	.2327												
80.000	.3727	.3249	.2801												
90.000			.2889	.0535	-.1736	-.2179	-.2296	-.2502	-.2613	-.2824	-.2728	-.2367	.0000	-.1094	-.0723
100.000						-.2203	-.2399	-.2455	-.2640	-.2801	-.2772	-.2640	-.1793	-.1417	-.0716
110.000						-.2777	-.2731	-.2748	-.2728	-.2779	-.2630	-.2306	-.2066	-.1946	-.0854
120.000						-.1829								-.1504	
130.000						-.2547								.0000	
140.000						-.2703								-.1208	
150.000						-.2291								-.1146	
160.000						-.2160								-.1112	
170.000						-.2070								-.1078	
180.000						-.1831	-.1085	-.0806	-.0731	-.0890	-.0779	-.0979	-.0906	-.0990	-.1057

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0440	-.0371	-.0264	-.0246	-.0221	-.0298	.0000	.0000	-.0015	.0167	.0395	.0366	.0175	.0008	-.0048
100.000	-.0515	-.0504	-.0413	-.0327	-.0285	-.0345	-.0330	-.0275	-.0129	-.0039	.0230	.0266	.0198	.0149	-.0150
110.000	-.0572	-.0489	-.0418	-.0411	-.0400	-.0434	-.0355	-.0322	-.0270	-.0183	-.0058	.0036	.0172	.0093	-.0067
120.000						-.0385								-.0003	
130.000						-.0598								-.0145	
140.000						-.0689								-.0250	
150.000						-.0620								-.0255	
160.000						-.0791								-.0264	
170.000						-.0864								-.0351	
180.000	-.1131	-.1093	-.0964	-.0981	-.0942	-.0908	-.0907	-.0778	-.0625	-.0287	-.0353	-.0320	-.0321	-.0214	-.0182

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0792		
70.000							.0491	.0231	.0000
80.000							.0225	-.0248	-.0395
90.000	-.0279	-.0453	-.0128	.0492	.0628	.0000	.0021	-.0488	-.0486
100.000	-.0060	-.0188	.0189	.1139	.1132	.0652			
110.000	-.0074	.0034	.0819	.1733	.1676	.0588			
120.000						.1470			
130.000						.3730			
140.000						.4118			
150.000						.4382			
160.000						.4320			
170.000						.4320			
180.000	-.0232	-.0022	.2586	.3695	.4201	.4409			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.501 ALPHA (4) = -2.159

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2656	.2391	.1181												
70.000	.3126	.2775	.1952												
80.000	.3096	.2720	.2526												
90.000			.2707	.0490	-.1828	-.2268	-.2405	-.2604	-.2716	-.2888	-.2729	-.2682	.0000	-.1862	-.1002
100.000						-.2290	-.2471	-.2571	-.2766	-.2926	-.2908	-.2728	-.2306	-.2243	-.1130
110.000						-.2796	-.2775	-.2837	-.2849	-.2999	-.2869	-.2543	-.2173	-.2126	-.1638
120.000						-.1965								-.1732	
130.000						-.2775								.0000	
140.000						-.3037								-.1485	
150.000						-.2617								-.1437	
160.000						-.2429								-.1416	
170.000						-.2423								-.1406	
180.000						-.2189	-.1444	-.1164	-.1114	-.1255	-.1137	-.1301	-.1239	-.1310	-.1348

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0807	-.0480	-.0358	-.0375	-.0368	-.0435	.0000	.0000	-.0199	.0050	.0321	.0218	-.0001	-.0192	-.0268
100.000	-.0652	-.0538	-.0457	-.0422	-.0420	-.0485	-.0527	-.0444	-.0263	-.0174	.0171	.0189	.0063	-.0001	-.0375
110.000	-.0780	-.0551	-.0487	-.0490	-.0454	-.0483	-.0504	-.0451	-.0375	-.0217	-.0065	.0020	.0070	-.0011	-.0233
120.000						-.0538								-.0072	
130.000						-.0785								-.0169	
140.000						-.0919								-.0263	
150.000						-.0919								-.0322	
160.000						-.1125								-.0336	
170.000						-.1146								-.0441	
180.000	-.1331	-.1309	-.1218	-.1237	-.1169	-.1148	-.1136	-.1051	-.0861	-.0479	-.0467	-.0454	-.0421	-.0336	-.0318

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0429		
70.000							.0123	-.0064	.0000
80.000							-.0098	-.0521	-.0611
90.000	-.0506	-.0714	-.0430	.0251	.0423	.0000	-.0238	-.0755	-.0748
100.000	-.0225	-.0405	-.0055	.0945	.0887	.0346			
110.000	-.0225	-.0132	.0679	.1521	.1373	.0470			
120.000						.1432			
130.000						.3597			
140.000						.3701			
150.000						.3824			
160.000						.3766			
170.000						.3809			
180.000	-.0321	-.0027	.2395	.3357	.3769	.3803			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.499 ALPHA (5) = -.027

SECTION / 1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2035	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2385	.2185	.0611												
70.000	.2723	.2363	.1398												
80.000	.2780	.2349	.2164												
90.000			.2561	.0455	-.1922	-.2291	-.2391	-.2524	-.2605	-.2844	-.2787	-.2867	.0000	-.2538	-.1580
100.000						-.2342	-.2420	-.2546	-.2672	-.2844	-.2876	-.2947	-.2609	-.2609	-.2030
110.000						-.2704	-.2721	-.2790	-.2807	-.3006	-.2942	-.2643	-.2406	-.2390	-.2097
120.000						-.2069								-.1810	
130.000						-.2987								.0000	
140.000						-.3342								-.1638	
150.000						-.2953								-.1606	
160.000						-.2815								-.1636	
170.000						-.2753								-.1631	
180.000						-.2542	-.1812	-.1503	-.1446	-.1544	-.1439	-.1588	-.1513	-.1578	-.1581

X/L	.4500	.4680	.4860	.5050	.5245	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0879	-.0677	-.0555	-.0526	-.0476	-.0578	.0000	.0000	-.0285	-.0035	.0198	.0110	-.0107	-.0278	-.0419
100.000	-.1084	-.0748	-.0623	-.0570	-.0526	-.0615	-.0662	-.0591	-.0402	-.0366	.0023	.0072	-.0059	-.0097	-.0514
110.000	-.1573	-.0830	-.0597	-.0586	-.0365	-.0615	-.0583	-.0560	-.0507	-.0392	-.0194	-.0137	-.0066	-.0160	-.0426
120.000						-.0634								-.0224	
130.000						-.0907								-.0265	
140.000						-.1115								-.0328	
150.000						-.1174								-.0398	
160.000						-.1329								-.0431	
170.000						-.1352								-.0515	
180.000	-.1535	-.1485	-.1334	-.1375	-.1343	-.1367	-.1391	-.1350	-.1161	-.0731	-.0659	-.0571	-.0525	-.0428	-.0331

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0134		
70.000							-.0142	-.0319	.0000
80.000							-.0396	-.0841	-.0928
90.000	-.0594	-.0884	-.0726	-.0134	.0190	.0000	-.0415	-.1055	-.1112
100.000	-.0323	-.0558	-.0391	.0675	.0717	.0270			
110.000	-.0333	-.0237	.0544	.1391	.1352	.0472			
120.000						.1569			
130.000						.3302			
140.000						.3273			
150.000						.3209			
160.000						.3165			
170.000						.3234			
180.000	-.0339	.0888	.2289	.2927	.3257	.3124			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.499 ALPHA (8) = 2.110

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2567	.1795	.0483												
70.000	.2381	.1969	.0956												
80.000	.2400	.1958	.1492												
90.000			.2339	.0640	-.1879	-.2312	-.2488	-.2606	-.2700	-.2933	-.2892	-.2968	.0000	-.2787	-.2365
100.000						-.2324	-.2463	-.2591	-.2753	-.2929	-.2980	-.3160	-.2907	-.2913	-.2486
110.000						-.2573	-.2650	-.2795	-.2864	-.3138	-.3185	-.2959	-.2687	-.2703	-.2346
120.000						-.2044								-.2060	
130.000						-.3169								.0000	
140.000						-.3669								-.1851	
150.000						-.3241								-.1783	
160.000						-.3088								-.1796	
170.000						-.3021								-.1817	
180.000						-.2830	-.2052	-.1769	-.1714	-.1790	-.1653	-.1784	-.1718	-.1755	-.1737

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6820	.7100
PHI															
90.000	-.1261	-.0871	-.0662	-.0594	-.0581	-.0625	.0000	.0000	-.0318	-.0058	.0152	.0021	-.0171	-.0379	-.0526
100.000	-.1703	-.0986	-.0717	-.0623	-.0584	-.0655	-.0678	-.0629	-.0416	-.0341	.0012	.0044	-.0100	-.0173	-.0668
110.000	-.2034	-.1229	-.0725	-.0673	-.0629	-.0712	-.0696	-.0557	-.0578	-.0431	-.0222	-.0181	-.0097	-.0239	-.0559
120.000						-.0751								-.0370	
130.000						-.1019								-.0344	
140.000						-.1302								-.0387	
150.000						-.1423								-.0407	
160.000						-.1540								-.0433	
170.000						-.1591								-.0517	
180.000	-.1713	-.1650	-.1569	-.1623	-.1574	-.1578	-.1621	-.1563	-.1303	-.0861	-.0747	-.0662	-.0571	-.0449	-.0281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0180		
70.000							-.0465	-.0529	.0000
80.000							-.0585	-.1060	-.1178
90.000	-.0758	-.1084	-.1074	-.0913	-.0123	.0000	-.0503	-.1271	-.1449
100.000	-.0470	-.0781	-.0904	.0173	.0681	.0219			
110.000	-.0485	-.0556	-.0227	.1141	.1378	.0472			
120.000						.1915			
130.000						.3218			
140.000						.2626			
150.000						.2781			
160.000						.2767			
170.000						.2914			
180.000	-.0191	.1238	.2247	.2697	.2982	.2713			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.500 ALPHA (7) = 4.214

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1664	.1656	.0330												
70.000	.2068	.1729	.0793												
80.000	.2079	.1640	.1151												
90.000			.1843	.0663	-.1896	-.2361	-.2543	-.2685	-.2751	-.2972	-.2907	-.3001	.0000	-.2830	-.2363
100.000						-.2378	-.2492	-.2648	-.2830	-.2992	-.3046	-.3190	-.2996	-.3078	-.2634
110.000						-.2573	-.2667	-.2833	-.2918	-.3212	-.3289	-.3157	-.2941	-.2935	-.2516
120.000						-.2113								-.2232	
130.000						-.3301								.0000	
140.000						-.3964								-.2027	
150.000						-.3501								-.1954	
160.000						-.3323								-.1969	
170.000						-.3254								-.1995	
180.000						-.3075	-.2234	-.1962	-.1922	-.2006	-.1887	-.1996	-.1901	-.1959	-.1911

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1465	-.1076	-.0787	-.0658	-.0598	-.0672	.0000	.0000	-.0328	-.0082	.0140	-.0028	-.0259	-.0545	-.0670
100.000	-.1635	-.1070	-.0790	-.0672	-.0592	-.0693	-.0713	-.0661	-.0462	-.0415	-.0023	-.0048	-.0226	-.0290	-.0858
110.000	-.2105	-.1229	-.0823	-.0710	-.0711	-.0772	-.0764	-.0727	-.0631	-.0507	-.0276	-.0213	-.0212	-.0351	-.0761
120.000						-.0881								-.0522	
130.000						-.1102								-.0386	
140.000						-.1338								-.0336	
150.000						-.1379								-.0318	
160.000						-.1637								-.0333	
170.000						-.1693								-.0374	
180.000	-.1879	-.1872	-.1756	-.1791	-.1724	-.1742	-.1703	-.1534	-.1220	-.0795	-.0700	-.0579	-.0471	-.0317	-.0101

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0563		
70.000							-.0858	-.0830	.0000
80.000							-.0831	-.1355	-.1388
90.000	-.0942	-.1286	-.1352	-.1456	-.0462	.0000	-.0686	-.1446	-.1663
100.000	-.0858	-.1050	-.1246	-.0335	.0479	.0014			
110.000	-.0680	-.0778	-.0722	.1019	.1262	.0354			
120.000						.2014			
130.000						.3244			
140.000						.2117			
150.000						.2416			
160.000						.2582			
170.000						.2771			
180.000	.0197	.1339	.2055	.2455	.2799	.2799			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.499 ALPHA (8) = 6.342

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1685	.1442	.0100												
70.000	.1797	.1565	.0477												
80.000	.1780	.1567	.0853												
90.000			.1203	.0516	-.1908	-.2393	-.2614	-.2733	-.2799	-.3020	-.2968	-.3013	.0000	-.2714	-.1915
100.000						-.2419	-.2564	-.2725	-.2876	-.3007	-.3090	-.3262	-.3052	-.3117	-.2375
110.000						-.2595	-.2707	-.2886	-.2993	-.3262	-.3355	-.3267	-.3177	-.3169	-.2618
120.000						-.2196								-.2476	
130.000						-.3416								.0000	
140.000						-.4187								-.2197	
150.000						-.3778								-.2134	
160.000						-.3565								-.2136	
170.000						-.3513								-.2172	
180.000						-.3381	-.2530	-.2245	-.2148	-.2220	-.2095	-.2196	-.2099	-.2130	-.2084

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1458	-.1206	-.0882	-.0734	-.0655	-.0724	.0000	.0000	-.0422	-.0224	-.0011	-.0207	-.0473	-.0758	-.0929
100.000	-.1581	-.1190	-.0872	-.0734	-.0687	-.0814	-.0804	-.0732	-.0524	-.0534	-.0191	-.0265	-.0451	-.0502	-.1061
110.000	-.1745	-.1097	-.0868	-.0808	-.0805	-.0995	-.0855	-.0820	-.0757	-.0657	-.0453	-.0432	-.0451	-.0601	-.1053
120.000						-.1029								-.0637	
130.000						-.1107								-.0402	
140.000						-.1239								-.0255	
150.000						-.1286								-.0215	
160.000						-.1494								-.0188	
170.000						-.1622								-.0230	
180.000	-.2058	-.2052	-.1908	-.1918	-.1855	-.1725	-.1542	-.1234	-.0986	-.0606	-.0548	-.0420	-.0322	-.0188	.0043

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0913		
70.000							-.1183	-.1128	.0000
80.000							-.1061	-.1595	-.1672
90.000	-.1167	-.1912	-.1997	-.1757	-.0840	.0000	-.0865	-.1598	-.1929
100.000	-.0885	-.1264	-.1499	-.0937	.0208	-.0189			
110.000	-.0889	-.1017	-.0995	.0779	.1040	.0265			
120.000						.1998			
130.000						.3138			
140.000						.1862			
150.000						.2113			
160.000						.2451			
170.000						.2625			
180.000	.0356	.1273	.1825	.2208	.2606	.2127			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB004)

MACH (8) = 1.499 ALPHA (9) = 8.493

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1800	.1247	-.0102												
70.000	.1668	.1368	.0267												
80.000	.1358	.1373	.0606												
90.000			.0874	.0437	-.2006	-.2439	-.2659	-.2779	-.2849	-.3077	-.3015	-.3050	.0000	-.2064	-.1517
100.000						-.2463	-.2589	-.2780	-.2933	-.3069	-.3154	-.3302	-.3060	-.2948	-.1772
110.000						-.2647	-.2738	-.2931	-.3047	-.3327	-.3424	-.3326	-.3285	-.3311	-.2117
120.000						-.2214								-.2763	
130.000						-.3475								.0000	
140.000						-.4319								-.2445	
150.000						-.3980								-.2374	
160.000						-.3753								-.2367	
170.000						-.3706								-.2411	
180.000						-.3580	-.2735	-.2462	-.2403	-.2463	-.2346	-.2396	-.2335	-.2375	-.2298

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1190	-.1099	-.0883	-.0756	-.0665	-.0807	.0000	.0000	-.0693	-.0506	-.0303	-.0529	-.0751	-.1029	-.1246
100.000	-.1466	-.1203	-.0920	-.0767	-.0712	-.0906	-.0910	-.0911	-.0733	-.0874	-.0462	-.0549	-.0779	-.0834	-.1387
110.000	-.1475	-.1143	-.0957	-.0907	-.0686	-.1007	-.1018	-.1056	-.1028	-.0975	-.0836	-.0823	-.0808	-.0970	-.1396
120.000						-.1256								-.0811	
130.000						-.1164								-.0467	
140.000						-.1143								-.0265	
150.000						-.1151								-.0183	
160.000						-.1275								-.0143	
170.000						-.1303								-.0205	
180.000	-.2256	-.2219	-.2087	-.2063	-.1840	-.1359	-.1041	-.0777	-.0597	-.0320	-.0300	-.0264	-.0229	-.0156	-.0005

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1271		
70.000							-.1475	-.1437	.0000
80.000							-.1263	-.1790	-.1869
90.000	-.1446	-.1782	-.1658	-.2038	-.1172	.0000	-.1050	-.1727	-.2075
100.000	-.1218	-.1951	-.1771	-.1169	-.0088	-.0412			
110.000	-.1199	-.1326	-.1175	.0524	.0731	.0048			
120.000						.2037			
130.000						.3043			
140.000						.1766			
150.000						.2138			
160.000						.2483			
170.000						.2533			
180.000	.0170	.1028	.1629	.2091	.2619	.1870			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005) (17 OCT 93)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.300

MACH (1) = 1.399 ALPHA (1) = -8.539

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3883	.3705	.1545												
70.000	.4142	.4005	.2558												
80.000	.4644	.3746	.2658												
90.000			.2410	-.0078	-.2005	-.2337	-.2417	-.2541	-.2540	-.2652	-.2312	-.1854	.0000	-.0705	-.0499
100.000						-.2448	-.2559	-.2565	-.2674	-.2642	-.2200	-.1948	-.1275	-.1163	-.0532
110.000						-.3332	-.3031	-.2941	-.2727	-.2510	-.2197	-.1753	-.1440	-.1440	-.0932
120.000						-.2073								-.1227	
130.000						-.2578								-.0600	
140.000						-.2474								-.0871	
150.000						-.2078								-.0776	
160.000						-.1829								-.0750	
170.000						-.1429								-.0724	
180.000						-.1335	-.0461	-.0312	-.0200	-.0464	-.0286	-.0566	-.0484	-.0593	-.0688

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0145	-.0080	.0028	.0036	.0008	-.0165	.0000	.0009	.0049	.0315	.0517	.0527	.0349	.0204	-.0114
100.000	-.0363	-.0249	-.0142	-.0080	-.0071	-.0222	-.0276	-.0242	-.0045	.0004	.0413	.0446	.0314	.0303	.0154
110.000	-.0561	-.0376	-.0298	-.0293	-.0295	-.0370	-.0373	-.0345	-.0277	-.0104	.0095	.0222	.0295	.0210	.0089
120.000						-.0372								.0141	
130.000						-.0605								-.0013	
140.000						-.0665								-.0079	
150.000						-.0417								-.0062	
160.000						-.0513								-.0029	
170.000						-.0516								-.0164	
180.000	-.0720	-.0732	-.0600	-.0656	-.0606	-.0534	-.0604	-.0562	-.0459	-.0082	-.0114	-.0062	-.0078	-.0084	-.0001

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1800		
70.000							.1466	.0835	.0000
80.000							.1114	.0246	.0450
90.000	.0019	.0240	.0865	.1102	.1072	.0000	.0760	.0119	.0447
100.000	.0209	.0456	.1202	.1682	.1622	.1043			
110.000	.0219	.0662	.1727	.2174	.1634	.0462			
120.000						.0946			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.399 ALPHA (1) = -8.539

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.3670			
140.000						.4932			
150.000						.5584			
160.000						.5460			
170.000						.5415			
180.000	-.0045	.0303	.3784	.4667	.5282	.5397			

MACH (1) = 1.401 ALPHA (2) = -6.463

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3375	.3346	.1316												
70.000	.3871	.3688	.2150												
80.000	.4015	.3505	.2507												
90.000			.2375	-.0108	-.2333	-.2728	-.2772	-.2510	-.2511	-.2642	-.2403	-.2018	.0000	-.0998	-.0734
100.000						-.2794	-.2925	-.2900	-.2667	-.2669	-.2359	-.2118	-.1476	-.1354	-.0777
110.000						-.3521	-.3328	-.3284	-.3074	-.2614	-.2334	-.1844	-.1535	-.1499	-.0995
120.000						-.2280								-.1363	
130.000						-.2873								.0000	
140.000						-.2895								-.1198	
150.000						-.2456								-.1237	
160.000						-.2244								-.1213	
170.000						-.1973								-.1155	
180.000						-.1778	-.0919	-.0724	-.0702	-.0864	-.0730	-.0992	-.0910	-.1016	-.1107

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0478	-.0399	-.0284	-.0262	-.0272	-.0413	.0000	.0000	-.0118	.0137	.0405	.0306	.0075	-.0070	.0019
100.000	-.0813	-.0570	-.0455	-.0390	-.0361	-.0479	-.0521	-.0454	-.0238	-.0176	.0212	.0233	.0119	.0058	-.0106
110.000	-.0693	-.0582	-.0525	-.0499	-.0499	-.0544	-.0539	-.0502	-.0419	-.0258	-.0041	.0067	.0152	.0043	-.0107
120.000						-.0559								-.0012	
130.000						-.0805								-.0122	
140.000						-.0853								-.0213	
150.000						-.0654								-.0242	
160.000						-.0751								-.0221	
170.000						-.0748								-.0350	
180.000	-.1140	-.1085	-.0868	-.0802	-.0820	-.0788	-.0814	-.0774	-.0645	-.0307	-.0350	-.0321	-.0319	-.0213	-.0254

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.401 ALPHA (2) = -8.463

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
65.000							.1362		
75.000							.1048	.0482	.0000
85.000							.0714	-.0027	-.0021
95.000	-.0297	-.0217	.0422	.0762	.0744	.0000	.0371	-.0292	-.0054
105.000	-.0065	.0036	.0804	.1372	.1302	.0657			
115.000	.0000	.0295	.1336	.1858	.1405	.0501			
125.000						.0983			
135.000						.3577			
145.000						.4528			
155.000						.5036			
165.000						.4927			
175.000						.4928			
185.000	-.0264	.0125	.3505	.4235	.4858	.4987			

MACH (1) = 1.400 ALPHA (3) = -4.319

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3020	.2955	.1191												
75.000	.3449	.3370	.1944												
80.000	.3423	.3248	.2360												
90.000			.2348	-.0106	-.2437	-.2832	-.2933	-.3112	-.3195	-.2649	-.2472	-.2184	-.0000	-.1168	-.0915
100.000						-.2866	-.3035	-.3076	-.3255	-.3365	-.2541	-.2220	-.1585	-.1487	-.0910
110.000						-.3502	-.3374	-.3393	-.3330	-.3308	-.3090	-.1922	-.1585	-.1547	-.1048
120.000						-.2426								-.1757	
130.000						-.3164								-.0000	
140.000						-.3283								-.1652	
150.000						-.2818								-.1562	
160.000						-.2648								-.1550	
170.000						-.2470								-.1433	
180.000						-.2218	-.1357	-.1142	-.1140	-.1289	-.1134	-.1364	-.1311	-.1407	-.1460

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0644	-.0808	-.0491	-.0470	-.0442	-.0554	.0000	.0000	-.0015	-.0084	-.0213	-.0069	-.0110	-.0379	-.0387
100.000	-.0733	-.0745	-.0644	-.0578	-.0534	-.0652	-.0668	-.0623	-.0434	-.0389	-.0011	-.0013	-.0109	-.0159	-.0387
110.000	-.0785	-.0897	-.0646	-.0656	-.0644	-.0665	-.0681	-.0641	-.0574	-.0425	-.0207	-.0113	-.0027	-.0134	-.0315
120.000						-.0715								-.0118	
130.000						-.0955								-.0205	
140.000						-.1032								-.0304	
150.000						-.0838								-.0364	

AMES 66-630 F ,SURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.400 ALPHA (3) = -4.319

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4850	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0934								-.0373	
170.000						-.0944								-.0488	
180.000	-.1480	-.1502	-.1310	-.1306	-.1095	-.0983	-.0986	-.0932	-.0831	-.0512	-.0511	-.0477	-.0450	-.0360	-.0351

X/L	.7290	.7470	.7670	.7850	.8030	.8290	8620	.9000	.9400
PHI									
60.000							.0907		
70.000							.0593	.0165	.0000
80.000							.0288	-.0334	-.0420
90.000	-.0638	-.0706	-.0054	.0420	.0420	.0000	.0013	-.0606	-.0452
100.000	-.0323	-.0393	.0315	.1107	.0754	.0366			
110.000	-.0215	-.0047	.1018	.1616	.1274	.0199			
120.000						.1004			
130.000						.3420			
140.000						.4090			
150.000						.4477			
160.000						.4375			
170.000						.4388			
180.000	-.0373	.0144	.2537	.3829	.4346	.4467			

MACH (1) = 1.399 ALPHA (4) = -2.126

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2491	.2421	.0944												
70.000	.2897	.2836	.1735												
80.000	.2883	.2756	.2184												
90.000			.2290	-.0126	-.2511	-.2895	-.3013	-.3065	-.3098	-.3307	-.3153	-.2446	.0000	-.1369	-.1140
100.000						-.2959	-.3104	-.3134	-.3203	-.3326	-.3244	-.2980	-.1815	-.1576	-.1022
110.000						-.3486	-.3433	-.3461	-.3401	-.3423	-.3200	-.2761	-.2227	-.1806	-.1061
120.000						-.2556								-.2003	
130.000						-.3409								.0000	
140.000						-.3626								-.1850	
150.000						-.3157								-.1845	
160.000						-.3006								-.1838	
170.000						-.2895								-.1845	
180.000						-.2626	-.1773	-.1549	-.1514	-.1668	-.1530	-.1738	-.1656	-.1732	-.1768

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REBO/S)

MACH (1) = 1.399 ALPHA (4) = -2.126

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0772	-.0784	-.0683	-.0686	-.0639	-.0748	.0000	.0000	-.0455	-.0198	.0023	-.0150	-.0386	-.0629	-.0498
100.000	-.0863	-.0853	-.0787	-.0738	-.0701	-.0776	-.0815	-.0701	-.05.8	0463	-.00.8	-.0143	-.0240	-.0401	-.0312
110.000	-.0867	-.0805	-.0757	-.0825	-.0791	-.0841	-.0798	-.0753	-.0661	-.0536	-.0353	-.0261	-.0229	-.0327	-.0408
120.000						-.0826								-.0232	
130.000						-.1072								-.0266	
140.000						-.1172								-.0360	
150.000						-.1001								-.0420	
160.000						-.1129								-.0446	
170.000						-.1155								-.0546	
180.000	-.1735	-.1758	-.1561	-.1601	-.1449	-.1204	-.1098	-.0992	-.0847	-.0643	-.0636	-.0629	-.0559	-.0467	-.0343

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0525		
70.000							.0180	-.0154	.0000
80.000							-.0084	-.0619	-.0766
90.000	-.0816	-.0901	-.0280	.0230	.0236	.0000	-.0291	-.0827	-.0817
100.000	-.0537	-.0537	.0209	.0979	.0691	.0147			
110.000	-.0343	-.0143	.0923	.1565	.1248	.0162			
120.000						.1098			
130.000						.3366			
140.000						.3692			
150.000						.3937			
160.000						.3878			
170.000						.3845			
180.000	-.0443	.0652	.2761	.3504	.3862	.3871			

MACH (1) = 1.400 ALPHA (5) = .019

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2089	.1857	.0579												
70.000	.2462	.2118	.1397												
80.000	.2422	.2269	.1965												
90.000			.2202	-.0071	-.2475	-.2871	-.3019	-.3157	-.3232	-.3473	-.3380	-.3397	.0000	-.1911	-.1294
100.000						-.2904	-.3034	-.3160	-.3308	-.3465	-.3481	-.3481	-.2957	-.1584	-.1212
110.000						-.3293	-.3317	-.3404	-.3424	-.3644	-.3495	-.3113	-.2794	.2762	-.1467
120.000						-.2637								-.2261	
130.000						-.3648								.0000	
140.000						-.4004								-.2191	
150.000						-.3518								-.2937	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.450 ALPHA (5) = .019

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

x/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.3378								-.2037	
170.000						-.3354								-.2072	
160.000						-.3509	-.2162	-.1904	-.1854	-.2000	-.1851	-.2016	-.1939	-.1981	-.1979

x/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0926	-.0840	-.0730	-.0781	-.0733	-.0763	.0000	.0000	-.0469	-.0188	.0022	-.0181	-.0455	-.0723	-.0646
100.000	-.0964	-.0907	-.0860	-.0852	-.0816	-.0913	-.0917	-.0804	-.0531	-.0566	-.0109	-.0181	-.0385	-.0440	-.0689
110.000	-.0986	-.0871	-.0834	-.0890	-.0899	-.0954	-.0921	-.0815	-.0712	-.0552	-.0344	-.0295	-.0289	-.0412	-.0660
120.000						-.0925								-.0274	
130.000						-.1178								-.0266	
140.000						-.1238								-.0311	
150.000						-.1253								-.0357	
160.000						-.1380								-.0407	
170.000						-.1512								-.0478	
180.000	-.1957	-.1913	-.1796	-.1828	-.1751	-.1603	-.1434	-.1183	-.1068	-.0734	-.0672	-.0621	-.0563	-.0418	-.0321

x/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0137		
70.000							-.0116	-.0412	.0000
80.000							-.0360	-.0965	-.1113
90.000	-.0960	-.1120	-.0818	-.0190	-.0024	.0000	-.0569	-.1162	-.1210
100.000	-.0660	-.0789	-.0324	.0620	.0497	.0010			
110.000	-.0557	-.0348	.0539	.1373	.1212	.0173			
120.000						.1266			
130.000						.3078			
140.000						.3230			
150.000						.3247			
160.000						.3117			
170.000						.3230			
180.000	-.0265	.1350	.2486	.2971	.3273	.2945			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.400 ALPHA (6) = 2.175

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1809	.1393	.0284												
70.000	.2134	.1777	.1228												
80.000	.2061	.1684	.1909												
90.000			.2237	.0101	-.2528	-.2928	-.3113	-.3245	-.3306	-.3553	-.3463	-.3518	.0000	-.2416	-.1487
100.000						-.2979	-.3111	-.3258	-.3399	-.3534	-.3589	-.3710	-.3312	-.3151	-.1455
110.000						-.3273	-.3330	-.3471	-.3512	-.3779	-.3786	-.3415	-.3108	-.3089	-.1986
120.000						-.2666								-.2460	
130.000						-.3848								.0000	
140.000						-.4339								-.2328	
150.000						-.3836								-.2269	
160.000						-.3675								-.2260	
170.000						-.3589								-.2204	
180.000						-.3309	-.2451	-.2181	-.2140	-.2275	-.2126	-.2271	-.2177	-.2224	-.2163

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1008	-.0865	-.0765	-.0744	-.0803	-.0813	.0000	.0000	-.0396	-.0194	-.0018	-.0334	-.0588	-.0937	-.0839
100.000	-.1045	-.0928	-.0833	-.0816	-.0837	-.0931	-.0862	-.0783	-.0502	-.0482	-.0156	-.0296	-.0457	-.0606	-.0951
110.000	-.1088	-.0904	-.0845	-.0889	-.0930	-.1034	-.0982	-.0848	-.0740	-.0573	-.0399	-.0388	-.0350	-.0545	-.0848
120.000						-.1078								-.0413	
130.000						-.1260								-.0288	
140.000						-.1343								-.0273	
150.000						-.1318								-.0280	
160.000						-.1521								-.0296	
170.000						-.1669								-.0373	
180.000	-.2181	-.2140	-.2025	-.2063	-.1979	-.1747	-.1509	-.1209	-.0995	-.0714	-.0638	-.0540	-.0459	-.0354	-.0400

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0142		
70.000							-.0389	-.0609	.0000
80.000							-.0799	-.1194	-.1354
90.000	-.1177	-.1298	-.1360	-.0805	-.0222	.0000	-.0843	-.1461	-.1616
100.000	-.0835	-.1071	-.1123	.0351	.0475	-.0164			
110.000	-.0739	-.0752	-.0110	.1278	.1190	-.0006			
120.000						.1531			
130.000						.3032			
140.000						.2455			
150.000						.2710			
160.000						.2736			
170.000						.2948			
180.000	.0390	.1567	.2292	.2681	.2930	.2615			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB003)

MACH (1) = 1.400 ALPHA (7) = 4.286

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1661	.1509	.0022												
70.000	.1953	.1638	.0665												
80.000	.2103	.1386	.1491												
90.000			.2149	.0147	-.2551	-.2978	-.3208	-.3313	-.3336	-.3610	-.3528	-.3623	.0000	-.2663	-.1691
100.000						-.3005	-.3162	-.3318	-.3472	-.3604	-.3640	-.3822	-.3541	-.3478	-.1742
110.000						-.3254	-.3356	-.3516	-.3585	-.3849	-.3915	-.3684	-.3421	-.3494	-.2217
120.000						-.2741								-.2639	
130.000						-.4003								.0000	
140.000						-.4654								-.2491	
150.000						-.4138								-.2457	
160.000						-.3937								-.2485	
170.000						-.3826								-.2510	
180.000						-.3585	-.2673	-.2425	-.2402	-.2530	-.2376	-.2480	-.2417	-.2450	-.2380

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1189	-.0965	-.0788	-.0758	-.0725	-.0756	.0000	.0000	-.0462	-.0315	-.0115	-.0516	-.0808	-.1124	-.1018
100.000	-.1210	-.0985	-.0859	-.0815	-.0799	-.0882	-.0822	-.0784	-.0555	-.0641	-.0282	-.0439	-.0633	-.0814	-.1018
110.000	-.1201	-.0989	-.0903	-.0923	-.0926	-.1026	-.0957	-.0867	-.0756	-.0668	-.0547	-.0533	-.0548	-.0766	-.1024
120.000						-.1228								-.0544	
130.000						-.1219								-.0361	
140.000						-.1308								-.0221	
150.000						-.1329								-.0193	
160.000						-.1548								-.0176	
170.000						-.1660								-.0250	
180.000	-.2341	-.2320	-.2213	-.2250	-.2107	-.1777	-.1406	-.1142	-.0851	-.0558	-.0474	-.0399	-.0315	-.0195	.0182

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0504		
70.000							-.0787	-.0880	.0000
80.000							-.1106	-.1508	-.1622
90.000	-.1443	-.1457	-.1662	-.1440	-.0480	.0000	-.1050	-.1741	-.1862
100.000	-.1019	-.1307	-.1518	-.0005	.0312	-.0333			
110.000	-.0935	-.0999	-.0612	.1102	.1065	-.0072			
120.000						.1242			
130.000						.3064			
140.000						.2134			
150.000						.2270			
160.000						.2580			
170.000						.2892			
180.000	.0682	.1422	.2018	.2428	.2793	.2466			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.400 ALPHA (8) = 6.395

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1567	.1218	-.0239												
70.000	.1707	.1458	.0258												
80.000	.1898	.1221	.0674												
90.000			.1619	.0079	-.2595	-.3022	-.3252	-.3360	-.3395	-.3594	-.3536	-.3519	.0000	-.2145	-.1704
100.000						-.3066	-.3203	-.3381	-.3486	-.3607	-.3651	-.3817	-.3467	-.3056	-.1739
110.000						-.3302	-.3401	-.3530	-.3651	-.3903	-.3965	-.3816	-.3623	-.3541	-.1816
120.000						-.2840								-.2864	
130.000						-.4118								.0000	
140.000						-.4896								-.2693	
150.000						-.4444								-.2652	
160.000						-.4222								-.2672	
170.000						-.4126								-.2604	
180.000						-.3927	-.3015	-.2760	-.2690	-.2762	-.2636	-.2726	-.2610	-.2652	-.2575

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6950	.7190
PHI															
90.000	-.1318	-.1090	-.0878	-.0838	-.0795	-.0916	.0000	.0000	-.0709	-.0571	-.0374	-.0700	-.0978	-.1279	-.1212
100.000	-.1241	-.1104	-.0957	-.0889	-.0841	-.1028	-.1032	-.0998	-.0795	-.0959	-.0520	-.0711	-.0795	-.1015	-.1228
110.000	-.1303	-.1064	-.0992	-.1001	-.1019	-.1163	-.1147	-.1119	-.1039	-.0970	-.0792	-.0781	-.0743	-.0970	-.1216
120.000						-.1402								-.0631	
130.000						-.1360								-.0420	
140.000						-.1282								-.0271	
150.000						-.1250								-.0156	
160.000						-.1347								-.0156	
170.000						-.1273								-.0213	
180.000	-.2514	-.2493	-.2343	-.2289	-.1908	-.1322	-.1051	-.0784	-.0641	-.0390	-.0379	-.0336	-.0270	-.0156	.0162

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0829		
70.000							-.1198	-.1155	.0000
80.000							-.1332	-.1796	-.1785
90.000	-.1541	-.1530	-.1899	-.1909	-.0884	.0000	-.1180	-.1948	-.2053
100.000	-.1209	-.1524	-.1764	-.0530	.0032	-.0503			
110.000	-.1116	-.1198	-.1019	.0808	.0879	-.0147			
120.000						.1641			
130.000						.2918			
140.000						.1986			
150.000						.2148			
160.000						.2535			
170.000						.2815			
180.000	.0938	.1370	.1834	.2280	.2724	.2313			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB005)

MACH (1) = 1.398 ALPHA (9) = 8.533

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1364	.1099	-.0457												
70.000	.1573	.1255	.0001												
80.000	.1772	.1225	.0372												
90.000			.0878	-.0075	-.2642	-.3087	-.3300	-.3397	-.3452	-.3700	-.3509	-.2459	.0000	-.1629	-.1468
100.000						-.3119	-.3264	-.3430	-.3561	-.3680	-.3718	-.3625	-.2450	-.2304	-.1579
110.000						-.3301	-.3424	-.3597	-.3708	-.3960	-.4038	-.3934	-.3465	-.2791	-.1777
120.000						-.2888								-.3145	
130.000						-.4211								.0000	
140.000						-.5086								-.2948	
150.000						-.4666								-.2869	
160.000						-.4435								-.2875	
170.000						-.4329								-.2928	
180.000						-.4142	-.3276	-.3036	-.3004	-.3042	-.2901	-.2963	-.2851	-.2884	-.2756

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1151	-.1127	-.1056	-.1056	-.1044	-.1191	.0000	.0000	-.1052	-.0926	-.0669	-.1047	-.1190	-.1488	-.1394
100.000	-.1399	-.1288	-.1183	-.1084	-.1068	-.1354	-.1364	-.1345	-.1143	-.1265	-.0813	-.0967	-.1063	-.1222	-.1441
110.000	-.1398	-.1200	-.1152	-.1254	-.1292	-.1524	-.1521	-.1489	-.1417	-.1329	-.1149	-.1073	-.1041	-.1221	-.1384
120.000						-.1620								-.0812	
130.000						-.1601								-.0509	
140.000						-.1258								-.0341	
150.000						-.1035								-.0222	
160.000						-.0869								-.0165	
170.000						-.0774								-.0220	
180.000	-.2705	-.2667	-.2312	-.1844	-.1176	-.0731	-.0603	-.0535	-.0509	-.0311	-.0349	-.0301	-.0266	-.0172	.0004

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.1151		
70.000							-.1577	-.1433	.0000
80.000							-.1492	-.2021	-.2018
90.000	-.1674	-.1608	-.2010	-.2080	-.1077	.0000	-.1304	-.2161	-.2383
100.000	-.1352	-.1627	-.1912	-.0655	-.0218	-.0676			
110.000	-.1287	-.1312	-.0886	.0608	.0597	-.0304			
120.000						.1732			
130.000						.2835			
140.000						.1864			
150.000						.2319			
160.000						.2667			
170.000						.2726			
180.000	.0166	.1086	.1851	.2409	.2925	.2258			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0139 SCALE

PARAMETRIC DATA

BETA = 2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
SN/L = 2.500

MACH (1) = 1.749 ALPHA (1) = -8.277

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3603	.3728	.2192												
70.000	.3717	.0000	.3057												
80.000	.3865	.3651	.3624												
90.000			.3685	.1444	-.0579	-.1114	-.1217	.0210	-.1562	-.1801	-.1749	-.1642	.0000	-.1240	-.0886
100.000						-.1133	-.1260	-.1354	-.1518	-.1688	-.1683	-.1650	-.1348	-.1274	-.1118
110.000						-.1813	-.1773	-.1913	-.1812	-.1653	-.1546	-.1321	.0000	-.1305	-.1224
120.000						-.0839								-.0728	
130.000						-.1119								.2828	
140.000						-.1127								-.0436	
150.000						-.0913								-.0273	
160.000						-.0814								-.0099	
170.000						-.0793								.0049	
180.000						-.0562	-.0001	.0316	.0407	.0351	.0383	.0316	.0258	.0131	.0017

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0317	-.0003	.0255	.0282	.0292	.0356	.0426	.0439	.0513	.0606	.0667	.0672	.0812	.0719	.0570
100.000	.0000	-.0375	-.0043	.0163	.0250	.0269	.0321	.0331	.0431	.0400	.0651	.0677	.0706	.0688	.0502
110.000	-.1068	.0000	-.0604	-.0330	-.0122	.0073	-.0058	-.0018	-.0016	.0022	.0093	.0149	.0276	.0318	.0135
120.000						.2038								.0176	
130.000						-.0605								.0043	
140.000						-.0355								.0011	
150.000						-.0024								-.0003	
160.000						.0062								-.0032	
170.000						.0162								-.0043	
180.000	-.0017	-.0087	.0115	.0076	.2637	.0152	.0115	.0062	.0064	.0059	.0091	.0053	.0035	.0024	.0037

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1227		
70.000							.1011	.0856	.0000
80.000							.0851	.0405	.0192
90.000	.0249	.0134	.0223	.0431	.0910	.0000	.0859	.0088	.0973
100.000	.0370	.0132	.0322	.0943	.1237	.1455			
110.000	.0099	.0187	.0565	.1602	.1815	.1171			
120.000						.1128			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (1) = 1.749 ALPHA (1) = -8.277

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.3554			
140.000						.4981			
150.000						.5278			
160.000						.4565			
170.000						.4179			
180.000	.0081	.0182	.0466	.3536	.4203	.5967			

MACH (1) = 1.751 ALPHA (2) = -6.176

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3391	.3402	.1874												
70.000	.3507	.0000	.2529												
80.000	.3581	.3423	.3270												
90.000			.3528	.1467	-.0606	-.1134	-.1314	-.0366	-.1679	-.1907	-.1875	-.1820	.0000	-.1470	-.1277
100.000						-.1142	-.1380	-.1483	-.1638	-.1823	-.1861	-.1837	-.1525	-.1459	-.1292
110.000						-.1756	-.1809	-.1962	-.1883	-.1809	-.1728	-.1488	.0000	-.1404	-.1305
120.000						-.0930								-.0851	
130.000						-.1294								.0189	
140.000						-.1367								-.0590	
150.000						-.1169								-.0467	
160.000						-.1082								-.0323	
170.000						-.1049								-.0198	
180.000						-.0851	-.0360	-.0009	.0091	.0056	.0076	.0026	-.0062	-.0120	-.0222

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0799	-.0418	-.0117	-.0063	-.0115	.0018	.0102	.0118	.0181	.0277	.0445	.0502	.0458	.0400	.0284
100.000	.0000	-.0888	-.0446	-.0170	-.0063	-.0044	.0007	.0036	.0118	.0128	.0322	.0369	.0413	.0447	.0256
110.000	-.1256	.0000	-.0995	-.0668	-.0412	-.0227	-.0268	-.0208	-.0165	-.0120	-.0078	-.0065	.0086	.0112	.0067
120.000						.0113								-.0004	
130.000						-.0914								-.0139	
140.000						-.0721								-.0157	
150.000						-.0472								-.0186	
160.000						-.0398								-.0242	
170.000						-.0268								-.0258	
180.000	-.0334	-.0363	-.0251	-.0292	.0349	-.0271	-.0279	-.0263	-.0255	-.0186	-.0149	-.0168	-.0173	-.0157	-.0125

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (1) = 1.751 ALPHA (2) = -6.176

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0853		
70.000							.0700	.0527	.0000
80.000							.0574	.0167	-.0050
90.000	.0060	-.0029	.0035	.0186	.0636	.0000	.0620	-.0101	.0044
100.000	.0221	.0100	.0156	.0699	.1008	.1153			
110.000	-.0051	.0040	.0319	.1370	.1502	.0831			
120.000						.1037			
130.000						.3317			
140.000						.4471			
150.000						.4667			
160.000						.4000			
170.000						.3757			
180.000	-.0079	-.0130	.0108	.3023	.3686	.5192			

MACH (1) = 1.749 ALPHA (3) = -4.107

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3149	.3105	.1570												
70.000	.3348	.0000	.2131												
80.000	.3443	.3233	.2761												
90.000			.3228	.1366	-.0723	-.1249	-.1413	-.0848	-.1783	-.1997	-.1994	-.2000	.0000	-.1747	-.1585
100.000						-.1266	-.1481	-.1584	-.1764	-.1953	-.2032	-.2048	-.1760	-.1734	-.1536
110.000						-.1814	-.1850	-.1975	-.1951	-.1967	-.1937	-.1705	.0000	-.1606	-.1497
120.000						-.1092								-.1074	
130.000						-.1529								-.0428	
140.000						-.1675								-.0803	
150.000						-.1469								-.0767	
160.000						-.1385								-.0634	
170.000						-.1350								-.0524	
180.000						-.1209	-.0673	-.0333	-.0228	-.0252	-.0217	-.0267	-.0371	-.0454	-.0537

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7100
PHI															
90.000	-.1166	-.0719	-.0373	-.0315	-.0334	-.0242	-.0197	-.0128	-.0036	.0078	.0256	.0297	.0261	.0175	.0066
100.000	.0000	-.1181	-.0719	-.0407	-.0300	-.0287	-.0266	-.0213	-.0091	-.0057	.0151	.0203	.0229	.0222	.0058
110.000	-.1407	.0000	-.1212	-.0858	-.0534	-.0381	-.0414	-.0340	-.0292	-.0231	-.0165	-.0168	-.0057	-.0031	-.0083
120.000						-.0188								-.0218	
130.000						-.1010								-.0345	
140.000						-.0657								-.0440	
150.000						-.0627								-.0477	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (1) = 1.749 ALPHA (3) = -4.107

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0535								-.0522	
170.000						-.0443								-.0556	
180.000	-.0571	-.0602	-.0482	-.0508	-.0107	-.0419	-.0472	-.0469	-.0464	-.0440	-.0424	-.0458	-.0474	-.0456	-.0449

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0511		
70.000							.0346	.0195	.0000
80.000							.0291	-.0145	-.0310
90.000	-.0156	-.0240	-.0232	-.0086	.0352	.0000	.0376	-.0325	-.0201
100.000	-.0078	-.0136	-.0108	.0427	.0786	.0938			
110.000	-.0159	-.0139	.0139	.1162	.1349	.0722			
120.000						.1018			
130.000						.3307			
140.000						.4115			
150.000						.4140			
160.000						.3555			
170.000						.3387			
180.000	-.0172	-.0401	.0131	.2667	.3264	.4496			

MACH (1) = 1.751 ALPHA (4) = -*.978

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2885	.2789	.1274												
70.000	.3108	.0000	.1813												
80.000	.3147	.3020	.2271												
90.000			.2667	.1248	-.0831	-.1353	-.1491	-.0936	-.1874	-.2096	-.2101	-.2141	.0000	-.1961	-.1845
100.000						-.1364	-.1528	-.1684	-.1876	-.2077	-.2168	-.2216	-.1984	-.1966	-.1747
110.000						-.1620	-.1879	-.2018	-.1999	-.2109	-.2125	-.1925	.0000	-.1.#3	-.1647
120.000						-.1195								-.1304	
130.000						-.1731								-.0852	
140.000						-.1927								-.1037	
150.000						-.1725								-.0965	
160.000						-.1640								-.0872	
170.000						-.1611								-.0774	
180.000						-.1487	-.0971	-.0658	-.0548	-.0559	-.0519	-.0571	-.0640	-.0707	-.0787

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = 1.751 ALPHA (4) = -1.978

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1508	-.1037	-.0830	-.0566	-.0625	-.0507	-.0415	-.0358	-.0272	-.0087	.0127	.0178	.0093	-.0001	-.0112
100.000	.0000	-.1446	-.1024	-.0658	-.0566	-.0530	-.0470	-.0426	-.0303	-.0269	.0002	.0069	.0082	.0028	-.0072
110.000	-.1562	.0000	-.1413	-.1086	-.0777	-.0604	-.0525	-.0467	-.0423	-.0368	-.0270	-.0241	-.0147	-.0116	-.0177
120.000						-.0442								-.0348	
130.000						-.1176								-.0499	
140.000						-.1010								-.0577	
150.000						-.0804								-.0621	
160.000						-.0733								-.0668	
170.000						-.0665								-.0713	
180.000	-.0815	-.0828	-.0705	-.0797	-.0465	-.0637	-.0663	-.0676	-.0692	-.0673	-.0648	-.0700	-.0697	-.0637	-.0643

X/L	.7700	.7870	.8070	.8250	.8430	.8290	.8620	.9000	.9400
PHI									
60.000							.0186		
70.000							.0102	-.0060	.0000
80.000							.0034	-.0370	-.0524
90.000	-.0344	-.0429	-.0439	-.0269	.0167	.0000	.0112	-.0492	-.0432
100.000	-.0309	-.0314	-.0287	.0212	.0571	.0709			
110.000	-.0229	-.0244	.0043	.1024	.1224	.0802			
120.000						.0989			
130.000						.3218			
140.000						.3728			
150.000						.3696			
160.000						.3168			
170.000						.3119			
180.000	-.0249	-.0594	.0130	.2335	.2916	.3899			

MACH (1) = 1.751 ALPHA (5) = .058

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2720	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2836	.2454	.1032												
70.000	.2839	.0000	.1526												
80.000	.2668	.2722	.1877												
90.000			.2395	.1097	-.0920	-.1434	-.1616	-.1199	-.1955	-.2159	-.2170	-.2215	.0000	-.2014	-.1919
100.000						-.1442	-.1627	-.1756	-.1955	-.2143	-.2264	-.2342	-.2142	-.2022	-.1787
110.000						-.1773	-.1922	-.2035	-.2057	-.2221	-.2269	-.2136	.0000	-.1973	-.1746
120.000						-.1259								-.1405	
130.000						-.1672								-.1074	
140.000						-.2130								-.1182	
150.000						-.1923								-.1162	

AMES 64-650 PRESSURE VENTING - INTEG. VEHICLE (RE8006)

MACH (1) = 1.751 ALPHA (5) = .056

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.1824								-.1063	
170.000						-.1813								-.0973	
160.000						-.1727	-.1240	-.0933	-.0826	-.0855	-.0820	-.0828	-.0880	-.0921	-.0999
X/L	.4550	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1720	-.1607	-.1727	-.0909	-.0813	-.0658	-.0589	-.0534	-.0443	-.0288	-.0105	-.0037	-.0087	-.0165	-.0281
100.000	.0000	-.1612	-.1465	-.1144	-.0836	-.0700	-.0637	-.0561	-.0469	-.0435	-.0210	-.0134	-.0055	-.0089	-.0224
110.000	-.1630	.0000	-.1467	-.1413	-.1206	-.0800	-.0733	-.0618	-.0550	-.0456	-.0408	-.0296	-.0181	-.0144	-.0221
120.000						-.0653								-.0416	
130.000						-.1293								-.0563	
140.000						-.1228								-.0696	
150.000						-.1053								-.0798	
160.000						-.0992								-.0874	
170.000						-.0948								-.0942	
180.000	-.1048	-.1054	-.0937	-.0945	-.0626	-.0867	-.0872	-.0880	-.0859	-.0851	-.0835	-.0874	-.0877	-.0864	-.0812
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
80.000							.0039								
90.000							-.0099	-.0287	.0000						
80.000							-.0114	-.0510	-.0698						
90.000	-.0504	-.0542	-.0542	-.0339	.0054	.0000	-.0069	-.0607	-.0602						
100.000	-.0482	-.0452	-.0389	.0137	.0403	.0469									
110.000	-.0317	-.0337	-.0051	.0878	.0989	.0414									
120.000						.1[illegible]									
130.000						.3075									
140.000						.3391									
150.000						.3282									
160.000						.2841									
170.000						.2846									
180.000	-.0504	-.0707	.0296	.2022	.2483	.3369									

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = 1.752 ALPHA (6) = 2.130

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3[illegible]0	.4050	.4310
PHI															
60.000	.2411	.2162	.0828												
70.000	.2550	.0000	.1238												
80.000	.2601	.2411	.1566												
90.000			.1966	.0939	-.1015	-.1518	-.1665	-.1421	-.1096	-.2071	-.2098	-.2181	.0000	-.2146	-.2169
100.000						-.1518	-.1700	-.1808	-.1958	-.2101	-.2187	-.2305	-.2177	-.2143	-.2037
110.000						-.1782	-.1915	-.2047	-.2103	-.2283	-.2271	-.2192	.0000	-.2037	-.1856
120.000						-.1357								-.1513	
130.000						-.2032								-.1270	
140.000						-.2360								-.1394	
150.000						-.2145								-.1347	
160.000						-.2053								-.1298	
170.000						-.2040								-.1221	
180.000						-.1967	-.1466	-.1190	-.1085	-.1101	-.1074	-.1094	-.1130	-.1172	-.1182

X/L	.4500	.4680	.4860	.5050	.5240	.3460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]0	.7190
PHI															
90.000	-.2011	-.1904	-.1695	-.1398	-.1055	-.0833	-.0738	-.0662	-.0539	-.0413	-.0204	-.0143	-.0196	-.0279	-.0412
100.000	.0000	-.1866	-.1762	-.1592	-.1336	-.0936	-.0779	-.0669	-.0541	-.0520	-.0319	-.0219	-.0193	-.0201	-.0342
110.000	-.1785	.0000	-.1635	-.1651	-.1553	-.1127	-.0926	-.0698	-.0591	-.0528	-.0450	-.0371	-.0259	-.0238	-.0319
120.000						-.0944								-.0528	
130.000						-.1334								.0633	
140.000						-.1224								-.0858	
150.000						-.1086								-.1004	
160.000						-.1028								-.1125	
170.000						-.0981								-.1143	
180.000	-.1[illegible]0	-.1[illegible]5	-.1039	-.1075	-.1194	-.0999	-.1004	-.1020	-.1028	-.1033	-.0994	-.1091	.1083	-.1064	-.1018

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0134		
70.000							-.02[illegible]6	-.0451	.0000
80.000							-.0334	-.0639	-.0834
90.000	-.0840	-.0862	-.0707	-.0509	-.0376	.0000	-.0226	-.0719	-.0749
100.000	-.0650	-.0572	-.0557	.0082	.0345	.0301			
110.000	-.0434	-.0454	-.0144	.0713	.0840	.0340			
120.000						.1193			
130.000						.300			
140.000						.3038			
150.000						.2328			
160.000						.2580			
170.000						.2603			
180.000	-.0424	-.0827	.0584	.1716	.2088	.2926			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (RE8006)

MACH (1) = 1.750 ALPHA (7) = 4.272

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2217	.1968	.0597												
70.000	.2306	.0000	.1007												
80.000	.2342	.2171	.1314												
90.000			.1646	.0799	-.1029	-.1507	-.1669	-.1680	-.1935	-.2131	-.2179	-.2265	.0000	-.2243	-.2297
100.000						-.1518	-.1685	-.1809	-.1986	-.2155	-.2269	-.2402	-.2307	-.2351	-.2225
110.000						-.1822	-.1905	-.2021	-.2088	-.2319	-.2362	-.2343	.0000	-.2261	-.2036
120.000						-.1480								-.1722	
130.000						-.2192								-.1489	
140.000						.2617								-.1487	
150.000						-.2391								-.1482	
160.000						-.2276								-.1451	
170.000						-.2265								-.1384	
180.000						-.2219	-.1731	-.1427	-.1323	-.1309	-.1296	-.1293	-.1334	-.1347	-.1345

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2171	-.2054	-.1837	-.1558	-.1086	-.0844	-.0738	-.0699	-.0603	-.0459	-.0234	-.0171	-.0244	-.0310	-.0463
100.000	.0000	-.1997	-.1878	-.1654	-.1303	-.0898	-.0770	-.0697	-.0618	-.0569	-.0344	-.0244	-.0221	-.0239	-.0416
110.000	-.1891	.0000	-.1747	-.1690	-.1530	-.10	-.0856	-.0704	-.0642	-.0592	-.0495	-.0409	-.0310	-.0307	-.0406
120.000						-.1006								-.0579	
130.000						-.1403								-.0712	
140.000						-.1348								-.0877	
150.000						-.1225								-.1028	
160.000						-.1183								-.1130	
170.000						-.1144								-.1248	
180.000	-.1277	-.1189	-.1060	-.1099	-.1370	-.1136	-.1183	-.1225	-.1267	-.1290	-.1196	-.1258	-.1232	-.1201	-.1101

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0270		
70.000							-.0445	-.0595	.0000
80.000							-.0420	-.0845	-.1052
90.000	-.0711	-.0749	-.0821	-.0601	-.0146	.0000	-.0390	-.0915	-.0955
100.000	-.0704	-.0643	-.0696	-.0055	.0204	.0125			
110.000	-.0526	-.0541	-.0148	.0664	.0754	.0247			
120.000						.1114			
130.000						.2964			
140.000						.2771			
150.000						.2659			
160.000						.2386			
170.000						.2428			
180.000	-.0531	-.0598	.0959	.1503	.1785	.2438			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8006)

MACH (1) = 1.749 ALPHA (8) = 6.328

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1994	.1724	.0431												
70.000	.2002	.0000	.0779												
80.000	.2025	.1893	.1068												
90.000			.1418	.0564	-.1125	-.1595	-.1755	-.1900	-.2002	-.2211	-.2262	-.2356	.0000	-.2332	-.2406
100.000						-.1616	-.1717	-.1873	-.2034	-.2208	-.2340	-.2501	-.2437	-.2489	-.2393
110.000						-.1759	-.1889	-.2015	-.2130	-.2375	-.2442	-.2476	.0000	-.2491	-.2233
120.000						-.1487								-.1852	
130.000						-.2277								-.1645	
140.000						-.2768								-.1645	
150.000						-.2553								-.1560	
160.000						-.2441								-.1552	
170.000						-.2449								-.1457	
180.000						-.2416	-.1953	-.1631	-.1527	-.1511	-.1486	-.1454	-.1449	-.1459	-.1392

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2306	-.2190	-.1701	-.1185	-.1069	-.0816	-.0774	-.0753	-.0672	-.0507	-.0261	-.0248	-.0356	-.0408	-.0597
100.000	.0000	-.2139	-.1891	-.1329	-.0891	-.0757	-.0753	-.0748	-.0693	-.0656	-.0434	-.0327	-.0324	-.0348	-.0549
110.000	-.2562	.0000	-.1832	-.1649	-.1149	-.0785	-.0727	-.0724	-.0703	-.0672	-.0591	-.0457	-.0350	-.0374	-.0512
120.000						-.0868								-.0544	
130.000						-.1550								-.0653	
140.000						-.1532								-.0755	
150.000						-.1446								-.0831	
160.000						-.1409								-.0894	
170.000						-.1362								-.1035	
180.000	.1373	-.1340	-.1252	-.1306	-.1257	-.1367	-.1393	-.1433	-.1435	-.1388	-.1254	-.1262	-.1184	-.1100	-.0934

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0566		
70.000							-.0729	-.0784	.0000
80.000							-.0554	-.1041	-.1264
90.000	-.0817	-.0774	-.1022	-.0964	-.0374	.0000	-.0376	-.1036	-.1171
100.000	-.0792	-.0802	-.0884	-.0187	.0225	.0173			
110.000	-.0617	-.0632	-.0077	.0700	.0783	.0352			
120.000						.1305			
130.000						.2067			
140.000						.2451			
150.000						.2427			
160.000						.2255			
170.000						.2444			
180.000	-.0817	-.0009	.0903	.1303	.1682	.2226			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (1) = 1.749 ALPHA (9) = 8.393

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1817	.1482	.0257												
70.000	.1734	.0000	.0562												
80.000	.1742	.1607	.0849												
90.000			.1153	.0179	-.1280	-.1737	-.1893	-.2052	-.2138	-.2326	-.2377	-.2473	.0000	-.2443	-.2502
100.000						-.1726	-.1829	-.1982	-.2127	-.2312	-.2438	-.2602	-.2554	-.2613	-.2570
110.000						-.1796	-.1923	-.2087	-.2216	-.2471	-.2538	-.2603	.0000	-.2624	-.2464
120.000						-.1527								-.1991	
130.000						-.2370								-.1819	
140.000						-.2910								-.1708	
150.000						-.2711								-.1682	
160.000						-.2572								-.1679	
170.000						-.2588								-.1597	
180.000						-.2574	-.2097	-.1772	-.1665	-.1627	-.1547	-.1540	-.1545	-.1548	-.1560

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2330	-.1846	-.1199	-.0972	-.1137	-.0843	-.0795	-.0743	-.0654	-.0544	-.0327	-.0324	-.0424	-.0507	-.0694
100.000	.0000	-.2094	-.1353	-.0928	-.0781	-.0819	-.0824	-.0816	-.0690	-.0729	-.0471	-.0408	-.0382	-.0493	-.0619
110.000	-.2246	.0000	-.1616	-.1036	-.0825	-.0812	-.0810	-.0826	-.0792	-.0750	-.0664	-.0593	-.0439	-.0460	-.0617
120.000						-.0827								-.0609	
130.000						-.1414								-.0554	
140.000						-.1686								-.0557	
150.000						-.1642								-.0599	
160.000						-.1626								-.0648	
170.000						-.1587								-.0763	
180.000	-.1557	-.1562	-.1469	-.1526	-.1005	-.1579	-.1589	-.1550	-.1521	-.1412	-.1210	-.1132	-.0962	-.0855	-.0664

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0872		
70.000							-.0944	-.0997	.0000
80.000							-.0719	-.1197	-.1429
90.000	-.0917	-.0559	-.1207	-.1307	-.0879	.0000	-.0514	-.1119	-.1354
100.000	-.0909	-.0889	-.1144	-.0802	-.0036	.0039			
110.000	-.0717	-.0774	-.0479	.0424	.0779	.0310			
120.000						.1800			
130.000						.2291			
140.000						.1787			
150.000						.2259			
160.000						.2170			
170.000						.2376			
180.000	-.0682	.0247	.0901	.1226	.1599	.2242			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = 2.002 ALPHA (1) = -7.803

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2712	.2868	.2210												
70.000	.3115	.2729	.2775												
80.000	.3486	.2630	.2937												
90.000			.2893	.2347	.0277	-.0242	-.0392	-.0077	-.0775	-.1008	-.0996	-.1010	.0000	-.0805	-.0751
100.000						-.0239	-.0469	-.0594	-.0735	-.0928	-.1005	-.1047	-.0871	-.0808	-.0662
110.000						-.0892	-.0934	-.1096	-.1033	-.0979	-.0891	-.0800	-.0726	-.0803	-.0639
120.000						-.0004								-.0803	
130.000						-.0447								.0000	
140.000						-.0739								.0013	
150.000						-.0651								.0164	
160.000						-.0566								.0233	
170.000						-.0517								.0414	
180.000						-.0444	-.0032	.0268	.0474	.0485	.0589	.0515	.0469	.0461	.0406

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0571	-.0462	-.0241	.0019	.0118	.0238	.0000	.0000	.0369	.0498	.0638	.0668	.0635	.0640	.0473
100.000	-.0563	-.0557	-.0451	-.0238	-.0050	.0118	.0120	.0205	.0301	.0309	.0471	.0484	.0580	.0616	.0454
110.000	-.0582	-.0549	-.0530	-.0502	-.0380	-.0276	-.0175	-.0031	.0019	.0068	.0104	.0109	.0235	.0238	.0184
120.000						-.0254								.0087	
130.000						-.0275								-.0120	
140.000						-.0073								-.0158	
150.000						.0120								-.0078	
160.000						.0197								-.0003	
170.000						.0243								.0005	
180.000	.0321	.0299	.0414	.0332	-.0284	.0268	.0235	.0189	.0186	.0183	.0161	.0128	.0104	.0090	-.0023

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0884		
70.000							.0923	.0782	.0000
80.000							.0976	.0517	.0291
90.000	.0315	.0179	.0158	.0176	.0536	.0000	.1104	.0517	.0013
100.000	.0431	.0305	.0268	.0525	.1061	.1094			
110.000	.0178	.0242	.0284	.1216	.1511	.0884			
120.000						.1157			
130.000						.3561			
140.000						.4534			
150.000						.4804			
160.000						.4672			
170.000						.3747			
180.000	.0166	.0055	.0142	.1628	.3584	.5321			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.000 ALPHA (2) = -5.742

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

x/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2502	.2672	.1919												
70.000	.2859	.2576	.2516												
80.000	.3149	.2500	.2686												
90.000			.2807	.2190	.0165	-.0346	-.0505	-.0281	-.0887	-.1094	-.1128	-.1157	.0000	-.1015	-.0971
100.000						-.0360	-.0578	-.0692	-.0862	-.1058	-.1148	-.1222	-.1066	-.1012	-.0870
110.000						-.0933	-.0981	-.1131	-.1103	-.1103	-.1097	-.0993	-.0919	-.0905	-.0799
120.000						-.0190								-.0914	
130.000						-.0612								.0000	
140.000						-.0916								-.0177	
150.000						-.0868								-.0177	
160.000						-.0836								.0055	
170.000						-.0808								.0143	
180.000						-.0732	-.0323	-.0029	.0135	.0187	.0263	.0253	.0233	.0129	.0113

x/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0824	-.0717	-.0537	-.0341	.0096	-.0090	.0000	.0000	.0118	.0211	.0351	.0372	.0356	.0320	.0216
100.000	-.0775	-.0774	-.0676	-.0551	-.0384	-.0196	-.0099	-.0028	.0055	.0047	.0216	.0263	.0310	.0320	.0218
110.000	-.0739	-.0709	-.0679	-.0695	-.0654	-.0529	-.0387	-.0260	-.0160	-.0097	-.0033	-.0014	.0044	.0071	.0051
120.000						-.0425								-.0138	
130.000						-.0451								-.0343	
140.000						-.0277								-.0393	
150.000						-.0099								-.0326	
160.000						-.0028								-.0241	
170.000						.0039								-.0230	
180.000	.0050	.0019	.0129	.0055	-.0466	.0030	.0000	-.0033	-.0061	-.0044	-.0055	-.0111	-.0147	-.0160	-.0243

x/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0483		
70.000							.0543	.0378	.0000
80.000							.0599	.0184	-.0039
90.000	.0053	-.0070	-.0115	-.0099	.0245	.0000	.0730	.0197	-.0256
100.000	.0074	.0040	-.0010	.0237	.0756	.0835			
110.000	.0069	.0074	.0090	.0937	.1249	.0622			
120.000						.1050			
130.000						.3331			
140.000						.4055			
150.000						.4254			
160.000						.3567			
170.000						.3258			
180.000	.0037	-.0167	-.0125	.1280	.3176	.4695			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.000 ALPHA (3) = -3.718

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2248	.2481	.1680												
70.000	.2549	.2407	.2242												
80.000	.2807	.2327	.2464												
90.000			.2662	.1935	.0044	-.0456	-.0600	-.0561	-.0991	-.1187	-.1232	-.1286	.0000	-.1206	-.1178
100.000						-.0465	-.0680	-.0804	-.0991	-.1173	-.1280	-.1365	-.1217	-.1208	-.1077
110.000						-.0955	-.1023	-.1156	-.1133	-.1210	-.1249	-.1189	-.1110	-.1099	-.0957
120.000						-.0300								-.0968	
130.000						-.0785								.0000	
140.000						-.1111								-.0390	
150.000						-.1054								-.0404	
160.000						-.1054								-.0213	
170.000						-.1032								-.0136	
180.000						-.0984	-.0617	-.0320	-.0161	-.0056	.0044	-.0008	-.0046	-.0087	-.0169

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.3980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1056	-.0965	-.0831	-.0657	-.0008	-.0362	.0000	.0000	-.0133	-.0033	.0088	.0107	.0096	.0055	-.0045
100.000	-.0985	-.0978	-.0886	-.0804	-.0681	-.0523	-.0407	-.0290	-.0183	-.0180	-.0014	.0022	.0060	.0079	.0005
110.000	-.0899	-.0869	-.0842	-.0845	-.0788	-.0766	-.0664	-.0504	-.0373	-.0277	-.0229	-.0174	-.0113	-.0097	-.0105
120.000						-.0635								-.0343	
130.000						-.0628								-.0542	
140.000						-.0495								-.0578	
150.000						-.0321								-.0512	
160.000						-.0268								-.0465	
170.000						-.0196								-.0449	
180.000	-.0210	-.0215	-.0125	-.0202	-.0621	-.0205	-.0235	-.0263	-.0285	-.0285	-.0301	-.0332	-.0370	-.0390	-.0462

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0170		
70.000							.0207	.0076	.0000
80.000							.0301	-.0081	-.0273
90.000	-.0189	-.0283	-.0365	-.0317	.0029	.0000	.0396	-.0042	-.0435
100.000	-.0210	-.0197	-.0236	.0003	.0496	.0561			
110.000	-.0108	-.0118	-.0084	.0711	.0967	.0388			
120.000						.0980			
130.000						.3128			
140.000						.3581			
150.000						.3786			
160.000						.3101			
170.000						.2881			
180.000	-.0118	- 0367	-.0338	.1068	.2766	.4108			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.002 ALPHA (4) = -1.646

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2046	.2408	.1467												
70.000	.2328	.2271	.2010												
80.000	.2435	.2224	.2251												
90.000			.2463	.1697	-.0080	-.0545	-.0739	-.0790	-.1088	-.1289	-.1320	-.1377	.0000	-.1344	-.1349
100.000						-.0548	-.0756	-.0897	-.1076	-.1272	-.1386	-.1491	-.1396	-.1344	-.1275
110.000						-.0965	-.1059	-.1187	-.1190	-.1332	-.1400	-.1346	-.1292	-.1273	-.1139
120.000						-.0392								-.1090	
130.000						-.0957								.0000	
140.000						-.1277								-.0568	
150.000						-.1209								-.0522	
160.000						-.1221								-.0435	
170.000						-.1215								-.0350	
180.000						-.1167	-.0835	-.0563	-.0404	-.0324	-.0231	-.0244	-.0274	-.0328	-.0377

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1234	-.1147	-.1054	-.0915	-.0164	-.0615	.0000	.0000	-.0347	-.0250	-.0117	-.0100	-.0120	-.0170	-.0231
100.000	-.1172	-.1139	-.1063	-.0994	-.0899	-.0765	-.0663	-.0508	-.0397	-.0366	-.0222	-.0175	-.0131	-.0111	-.0197
110.000	-.1054	-.1024	-.1003	-.0992	-.0896	-.0940	-.0860	-.0718	-.0549	-.0449	-.0372	-.0328	-.0247	-.0231	-.0234
120.000						-.0809								-.0488	
130.000						-.0774								-.0677	
140.000						-.0663								-.0736	
150.000						-.0513								-.0693	
160.000						-.0480								-.0638	
170.000						-.0430								-.0632	
180.000	-.0429	-.0435	-.0345	-.0407	-.0795	-.0402	-.0441	-.0463	-.0502	-.0491	-.0511	-.0533	-.0574	-.0588	-.0641

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0040		
70.000							-.0063	-.0158	.0000
80.000							.0042	-.0287	-.0476
90.000	-.0389	-.0486	-.0544	-.0489	-.0155	.0000	.0144	-.0229	-.0581
100.000	-.0370	-.0344	-.0399	-.0150	.0299	.0330			
110.000	-.0247	-.0247	-.0226	.0535	.0777	.0210			
120.000						.0927			
130.000						.2959			
140.000						.3234			
150.000						.3366			
160.000						.2733			
170.000						.2568			
180.000	-.0283	-.0328	-.0496	.1079	.2386	.3628			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.003 ALPHA (5) = .466

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1945	.2346	.1237												
70.000	.2135	.2286	.1720												
80.000	.2220	.2250	.2014												
90.000			.2280	.1410	-.0226	-.0700	-.0862	-.0975	-.1183	-.1310	-.1427	-.1498	.0000	-.1479	-.1517
100.000						-.0703	-.0842	-.0995	-.1177	-.1361	-.1475	-.1597	-.1533	-.1476	-.1457
110.000						-.0950	-.1075	-.1200	-.1251	-.1444	-.1537	-.1506	-.1544	-.1473	-.1337
120.000						-.0487								-.1241	
130.000						-.1109								.0000	
140.000						-.1464								-.0766	
150.000						-.1359								-.0730	
160.000						-.1359								-.0649	
170.000						-.1379								-.0572	
180.000						-.1342	-.1021	-.0737	-.0578	-.0530	-.0479	-.0501	-.0523	-.0558	-.0621

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1421	-.1348	-.1225	-.1080	-.0345	-.0722	.0000	.0000	-.0534	-.0434	-.0317	-.0301	-.0315	-.0334	-.0405
100.000	-.1359	-.1309	-.1233	-.1145	-.1028	-.0861	-.0728	-.0614	-.0523	-.0536	-.0392	-.0356	-.0323	-.0287	-.0353
110.000	-.1249	-.1197	-.1156	-.1137	-.1091	-.1053	.0930	-.0758	-.0620	-.0545	-.0503	-.0442	-.0387	-.0373	-.0358
120.000						-.0946								-.0572	
130.000						-.0941								-.0717	
140.000						-.0838								-.0833	
150.000						-.0714								-.0852	
160.000						-.0664								-.0816	
170.000						-.0620								-.0805	
180.000	-.0843	-.0835	-.0547	-.0810	-.0935	-.0603	-.0642	-.0664	-.0692	-.0669	-.0692	-.0733	-.0742	-.0744	-.0789

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0213		
70.000							-.0240	-.0371	.0000
80.000							-.0171	-.0471	-.0634
90.000	-.0558	-.0626	-.0713	-.0642	-.0308	.0000	-.0059	-.0397	-.0720
100.000	-.0534	-.0534	-.0600	-.0282	.0144	.0123			
110.000	-.0397	-.0390	-.0369	.0351	.0566	.0044			
120.000						.0300			
130.000						.2838			
140.000						.2943			
150.000						.2979			
160.000						.2465			
170.000						.2344			
180.000	-.0382	-.0647	-.0566	.1160	.2045	.3082			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.003 ALPHA (6) = 2.605

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1867	.2213	.1033												
70.000	.1939	.2197	.1448												
80.000	.1972	.2197	.1741												
90.000			.2037	.1187	-.0376	-.0833	-.0984	-.1180	-.1276	-.1441	-.1486	-.1537	.0000	-.1459	-.1511
100.000						-.0836	-.0970	-.1106	-.1282	-.1446	-.1557	-.1674	-.1617	-.1625	-.1530
110.000						-.0970	-.1114	-.1239	-.1333	-.1557	-.1651	-.1636	-.1615	-.1609	-.1440
120.000						-.0598								-.1399	
130.000						-.1231								.0000	
140.000						-.1637								-.0962	
150.000						-.1506								-.0940	
160.000						-.1483								-.0861	
170.000						-.1506								-.0796	
180.000						-.1503	-.1202	-.0930	-.0788	-.0748	-.0711	-.0730	-.0746	-.0777	-.0812

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1443	-.1391	-.1298	-.1241	-.0528	-.1200	.0000	0000	-.0855	-.0636	-.0478	-.0420	-.0426	-.0459	-.0529
100.000	-.1413	-.1364	-.1276	-.1200	-.1145	-.1148	-.1163	-.1132	-.0996	-.0866	-.0597	-.0492	-.0414	-.0390	-.0452
110.000	-.1312	-.1233	-.1162	-.1129	-.1148	-.1102	-.1102	-.1096	-.1079	-.0996	-.0778	-.0631	-.0489	-.0437	-.0416
120.000						-.1039								-.0789	
130.000						-.1019								-.0941	
140.000						-.0974								-.0938	
150.000						-.0880								-.0891	
160.000						-.0838								-.0875	
170.000						-.0789								-.0891	
180.000	-.0331	-.0823	-.0736	-.0796	-.1031	-.0775	-.0794	-.0813	-.0836	-.0819	-.0825	-.0859	-.0864	-.0875	-.0921

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0337		
70.000							-.0363	-.0505	.0000
80.000							-.0308	-.0587	-.0752
90.000	-.0673	-.0726	-.0815	-.0731	-.0424	.0000	-.0174	-.0518	-.0821
100.000	-.0676	-.0621	-.0655	-.0316	.0102	.0039			
110.000	-.0494	-.0458	-.0416	.0259	.0509	.0004			
120.000						.0919			
130.000						.2705			
140.000						.2616			
150.000						.2626			
160.000						.2153			
170.000						.2083			
180.000	-.0447	-.0781	-.0676	.0974	.1667	.2558			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (2) = 2.003 ALPHA (7) = 4.681

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1749	.2007	.0846												
70.000	.1699	.1990	.1222												
80.000	.1721	.2020	.1485												
90.000			.1760	.0909	-.0524	-.0938	-.1108	-.1398	-.1341	-.1486	-.1503	-.1568	.0000	-.1555	-.1628
100.000						-.0932	-.1077	-.1216	-.1378	-.1523	-.1608	-.1707	-.1645	-.1552	-.1653
110.000						-.1054	-.1193	-.1318	-.1421	-.1645	-.1753	-.1721	-.1639	-.1702	-.1500
120.000						-.0685								-.1533	
130.000						-.1338								.0000	
140.000						-.1809								-.1126	
150.000						-.1673								-.1115	
160.000						-.1627								-.1058	
170.000						-.1653								-.0992	
180.000						-.1670	-.1404	-.1142	-.0995	-.0966	-.0935	-.0932	-.0951	-.0990	-.1014

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5810	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1577	-.1569	-.1490	-.1443	-.0714	-.1301	.0000	.0000	-.0788	-.0675	-.0575	-.0534	-.0523	-.0548	-.0604
100.000	-.1582	-.1550	-.1465	-.1380	-.1329	-.1301	-.1254	-.1118	-.0883	-.0750	-.0589	-.0550	-.0500	-.0484	-.0541
110.000	-.1509	-.1419	-.1339	-.1307	-.1279	-.1271	-.1223	-.1173	-.1068	-.0858	-.0697	-.0609	-.0542	-.0509	-.0492
120.000						-.1167								-.0692	
130.000						-.1126								-.0858	
140.000						-.1076								-.0991	
150.000						-.0988								-.1005	
160.000						-.0960								-.1000	
170.000						-.0946								-.1022	
180.000	-.1028	-.1006	-.0916	-.0957	-.1162	-.0943	-.0960	-.0968	-.0977	-.0949	-.0977	-.1000	-.0986	-.0994	-.0976

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0471		
70.000							-.0506	-.0621	.0000
80.000							-.0429	-.0763	-.0937
90.000	-.0736	-.0791	-.0910	-.0807	-.0494	.0000	-.0353	-.0661	-.0985
100.000	-.0725	-.0736	-.0781	-.0460	-.0124	-.0143			
110.000	-.0576	-.0570	-.0547	.0167	.0435	-.0049			
120.000						.0892			
130.000						.2468			
140.000						.2315			
150.000						.2373			
160.000						.2029			
170.000						.2029			
180.000	-.0555	-.0773	-.0497	.0942	.1464	.2137			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB00&

MACH . Z) = 2.003 ALPHA (8) = 5.705

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1554	.1615	.0876												
70.000	.1463	.1798	.1014												
80.000	.1417	.1790	.1244												
90.000			.1497	.0660	-.0694	-.1085	-.1239	-.1557	-.1452	-.1574	-.1611	-.1677	.0000	-.1665	-.1741
100.000						-.1091	-.1157	-.1310	-.1449	-.1591	-.1682	-.1784	-.1758	-.1668	-.1799
110.000						-.1114	-.1256	-.1393	-.1515	-.1713	-.1824	-.1821	-.1755	-.1845	-.1785
120.000						-.0773								-.1668	
130.000						-.1446								.0000	
140.000						-.1976								-.1307	
150.000						-.1843								-.1277	
160.000						-.1778								-.1225	
170.000						-.1837								-.1162	
180.000						-.1817	-.1574	-.1324	-.1197	-.1154	-.1123	-.1108	-.1121	-.1143	-.1165

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1725	-.1705	-.1648	-.1550	-.0859	-.1044	.0000	.0000	-.0803	-.0750	-.1628	-.0606	-.0600	-.0647	-.0708
100.000	-.1755	-.1722	-.1623	-.1528	-.1408	-.1165	-.0986	-.0844	-.0753	-.0769	-.0670	-.0614	-.0586	-.0556	-.0645
110.000	-.1702	-.1618	-.1514	-.1484	-.1429	-.1312	-.1146	-.0908	-.0786	-.0739	-.0695	-.0664	-.0614	-.0570	-.0579
120.000						-.1238								-.0681	
130.000						-.1285								-.0745	
140.000						-.1221								-.0856	
150.000						-.1152								-.0969	
160.000						-.1116								-.1038	
170.000						-.1105								-.1086	
180.000	-.1145	-.1126	-.1055	-.1099	-.1279	-.1107	-.1124	-.1130	-.1132	-.1116	-.1105	-.1091	-.1069	-.1050	-.0986

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0635		
70.000							-.0690	-.0787	0000
80.000							-.0501	-.0885	-.1081
90.000	-.0837	-.0843	-.1031	-.0904	-.0579	.0000	-.0395	-.0763	-.1126
100.000	-.0914	-.0819	-.0859	-.0398	-.0070	-.0101			
110.000	-.0873	-.0669	-.0532	.0177	.0343	.0020			
120.000						.0895			
130.000						.1935			
140.000						.2064			
150.000						.2243			
160.000						.2019			
170.000						.2101			
180.000	-.0853	-.0769	-.0356	.0018	.1354	.1919			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (8) = 2.003 ALPHA (9) = 0.027

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1365	.1562	.0487												
70.000	.1343	.1587	.0797												
80.000	.1195	.1549	.1005												
90.000			.1230	.0407	-.0870	-.1258	-.1372	-.1716	-.1548	-.1673	-.1704	-.1787	.0000	-.1812	-.1885
100.000						-.1261	-.1264	-.1401	-.1540	-.1682	-.1770	-.1863	-.1861	-.1929	-.1945
110.000						-.1159	-.1307	-.1455	-.1602	-.1809	-.1909	-.1921	-.1954	-.1932	-.1973
120.000						-.0870								-.1779	
130.000						-.1362								.0000	
140.000						-.2098								-.1487	
150.000						-.1985								-.1429	
160.000						-.1914								-.1386	
170.000						-.1956								-.1335	
180.000						-.1959	-.1747	-.1506	-.1367	-.1515	-.1296	-.1287	-.1304	-.1312	-.1334

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1890	-.1809	-.1661	-.1391	-.1028	-.0979	.0000	.0000	-.0877	-.0825	-.0678	-.0631	-.0628	-.0655	-.0752
100.000	-.1986	-.1902	-.1776	-.1519	-.1208	-.0971	-.0911	-.0883	-.0827	-.0863	-.0752	-.0686	-.0619	-.0567	-.0687
110.000	-.1913	-.1820	-.1722	-.1596	-.1358	-.1047	-.0933	-.0872	-.0858	-.0850	-.0808	-.0769	-.0683	-.0631	-.0645
120.000						-.1099								-.0736	
130.000						-.1457								-.0750	
140.000						-.1387								-.0797	
150.000						-.1307								-.0836	
160.000						-.1282								-.0880	
170.000						-.1265								-.0977	
180.000	-.1328	-.1309	-.1233	-.1274	-.1309	-.1279	-.1282	-.1271	-.1260	-.1204	-.1138	-.1110	-.1052	-.0996	-.0927

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0877		
70.000							-.0840	-.0932	.0100
80.000							-.0611	-.0567	-.1173
90.000	-.0884	-.0834	-.1104	-.1144	-.0937	.0000	-.0440	-.0782	-.1176
100.000	-.0866	-.0684	-.1089	-.0731	-.0264	-.0138			
110.000	-.0718	-.0752	-.0692	.0119	.0437	.0167			
120.000						.1454			
130.000						.1580			
140.000						.1491			
150.000						.2097			
160.000						.1990			
170.000						.2124			
180.000	-.0897	-.0739	-.0214	.0752	.1294	.2121			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REBOOP) (17 OCT 93)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .802 ALPHA (1) = -8.432

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1640	-.1990	-.3342												
70.000	-.0710	.0000	-.2811												
80.000	-.0305	-.2427	-.5188												
90.000			-.4577	-.4825	-.4877	-.2748	-.1878	-.2155	-.0954	-.1017	-.0761	-.0644	.0000	-.0391	-.0519
100.000						-.3278	-.2438	-.1968	-.1348	-.0951	-.0667	-.0767	-.0728	-.0590	-.0571
110.000						-.3404	-.3419	-.2348	-.1484	-.1181	-.3289	-.1017	.0000	-.0950	-.0551
120.000						-.3211								-.0882	
130.000						-.2617								-.3412	
140.000						-.2394								-.0921	
150.000						-.1886								-.0571	
160.000						-.1920								-.0561	
170.000						-.1930								-.0683	
180.000						-.16'9	-.1241	-.1161	-.0894	-.0700	-.0520	-.0375	-.0314	-.0401	-.0189

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0285	.0031	.0221	.0234	.0227	.0295	.0303	.0355	.0226	.0236	.0259	-.0175	-.0198	-.0250	-.0374
100.000	.0000	-.0266	-.0174	-.0039	.0218	.0031	.0210	.0033	.0126	-.0184	.0144	-.0152	-.0321	-.0263	-.0443
110.000	-.0328	.0000	-.0014	-.0039	-.0123	.0166	.0056	.0171	.0072	.0107	.0156	.0121	-.0019	-.0156	-.0240
120.000						-.2211								.0046	
130.000						-.0560								.0056	
140.000						-.0425								.0443	
150.000						-.0012								.0430	
160.00						-.0080								.0645	
170.000						-.0002								.0623	
180.000	.0073	-.0129	.0118	-.0023	-.2853	.0065	.0239	.0052	-.0038	.0052	-.3465	.0407	.0414	.0636	.0954

X/L	.7590	.7870	.7870	.7850	.6030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0230		
70.000							-.0572	-.0827	.0000
80.000							-.1039	-.1079	-.1160
90.000	-.0647	-.0823	-.0455	-.0836	-.1068	.0000	-.0886	-.1116	-.2249
100.000	-.0468	-.0131	-.0330	-.0670	-.1040	-.0983			
110.000	-.0209	-.0122	.0015	-.0284	-.1017	-.2460			
120.000						-.4635			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .802 ALPHA (1) = -8.432

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7870	.7950	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.2439			
140.000						.0175			
150.000						.1454			
160.000						.1664			
170.000						.1856			
180.000	.0957	.1724	.2113	.2546	.3447	.5579			

MACH (1) = .802 ALPHA (2) = -8.783

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.338[illegible]	.3570	.3750	.3940	.4[illegible]50	.4310
PHI															
60.000	-.1245	-.1912	-.0156												
70.000	-.1671	.0000	-.2892												
80.000	-.0175	-.2245	-.2955												
90.000			-.4099	-.4736	-.4713	-.2765	-.1990	-.1519	-.1275	-.1241	-.0912	-.0876	.0000	-.0444	-.0527
100.000						-.3236	-.2428	-.1945	-.1439	-.1055	-.0826	-.0936	-.0659	-.0854	-.0431
110.000						-.4603	-.3435	-.2505	-.1622	-.1239	-.2072	-.0732	.0000	-.0659	-.0425
120.000						-.2955								-.0774	
130.000						-.2842								-.2073	
140.000						-.2465								-.0861	
150.000						-.2009								-.0681	
160.000						-.1955								-.0684	
170.000						-.2182								-.0473	
180.000						-.1798	-.1505	-.1175	-.1119	-.1112	-.0719	-.0518	-.0521	-.0296	-.0162

X/L	.4900	.4600	.4080	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.636[illegible]	.654[illegible]	.6730	.6[illegible]80	.7100
PHI															
90.000	-.0283	-.0223	-.0133	.0047	-.0153	.0127	.0253	.0256	.0240	.0066	-.0177	-.0522	-.0704	-.[illegible]639	-.0577
100.000	.0000	-.0361	-.0293	-.0200	-.0165	-.0153	-.0361	.0040	.0147	-.0171	-.0083	-.0617	-.0655	-.0499	-.0673
110.000	-.0434	.0000	-.0364	-.0162	-.0117	-.0159	.0011	.0037	-.0045	-.0052	-.019[illegible]	-.0252	-.0346	-.0346	-.0313
120.000						-.1053								-.0[illegible]20	
130.000						-.0454								-.0038	
140.000						-.0457								.0075	
150.000						.0030								.0207	
160.000						-.0087								.0345	
170.000						.0062								.0[illegible]7[illegible]	
180.000	-.0269	-.0329	-.0[illegible]20	-.0194	-.1605	-.0017	-.0145	-.0090	-.0002	.0082	-.1952	.0066	.0202	.0400	.0944

X/L	.7290	.74.0	.7870	.7950	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .802 ALPHA (2) = -6.383

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0352		
70.000							-.0669	-.0769	.0000
80.000							-.1014	-.1372	-.1133
90.000	-.0835	-.0676	-.0614	-.0993	-.1068	.0000	-.1052	-.1111	-.1409
100.000	-.0608	-.0424	-.0378	-.0558	-.0975	-.1192			
110.000	-.0241	-.0117	-.0023	-.0278	-.1409	-.2482			
120.000						-.4478			
130.000						-.2420			
140.000						-.0017			
150.000						.1015			
160.000						.1237			
170.000						.1592			
180.000	.1129	.1602	.2136	.2605	.3241	.5050			

MACH (1) = .802 ALPHA (3) = -4.282

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1232	-.1592	-.2672												
70.000	-.0555	.0000	-.2522												
80.000	-.0135	-.2096	-.2689												
90.000			-.3699	-.4490	-.4440	-.2816	-.2072	-.1692	-.1245	-.1349	-.0935	-.0816	.0000	-.0442	-.0750
100.000						-.3159	-.2581	-.1992	-.1445	-.1065	-.0812	-.0932	-.0651	-.0859	-.0622
110.000						-.4566	-.3384	-.2568	-.1652	-.1155	-.1255	-.0734	.0000	-.0798	-.0651
120.000						-.2976								-.0747	
130.000						-.3066								-.1658	
140.000						-.2843								-.0850	
150.000						-.2389								-.0821	
160.000						-.2249								-.0872	
170.000						-.2399								-.0754	
180.000						-.2109	-.1772	-.1392	-.1289	-.1132	-.0829	-.0587	-.0516	-.0600	-.0484

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0449	-.0323	-.0298	-.0118	-.0128	-.0038	.0125	.0039	-.0189	-.0358	-.0504	-.0783	-.1017	-.0945	-.0788
100.000	.0000	-.0625	-.0362	-.0291	-.0080	-.0205	-.0137	-.0192	-.0189	-.0566	-.0432	-.0676	-.0835	-.0669	-.0776
110.000	-.0500	.0000	-.0285	-.0327	-.0246	-.0202	-.0127	-.0166	-.0238	-.0374	-.0390	-.0533	-.0588	-.0572	-.0515
120.000						-.0477								-.0277	
130.000						-.0455								-.0121	
140.000						-.0494								.0035	
150.000						-.0147								.0087	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .602 ALPHA (3) = -4.282

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0173								.0203	
170.000						-.0111								.0241	
180.000	-.0586	-.0423	-.0362	-.0291	-.0743	-.0078	-.0228	-.0312	-.0403	-.0260	-.1065	-.0049	.0084	.0328	.0795

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0423		
70.000							-.0827	-.0746	.0000
80.000							-.0958	-.1153	-.0973
90.000	-.1062	-.0878	-.0798	-.1012	-.1183	.0000	-.1017	-.1188	-.1023
100.000	-.0651	-.0474	-.0639	-.0711	-.1161	-.1455			
110.000	-.0353	-.0309	-.0278	-.0558	-.1396	-.2589			
120.000						-.4349			
130.000						-.2440			
140.000						-.0265			
150.000						.0858			
160.000						.1198			
170.000						.1380			
180.000	.0873	.1373	.1777	.2222	.2896	.4942			

MACH (1) = .601 ALPHA (4) = -2.16

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1211	-.1648	-.2781												
70.000	-.0515	.0000	-.2529												
80.000	-.0290	-.2001	-.2677												
90.000			-.3588	-.4583	-.4569	-.2862	-.2164	-.1972	-.1405	-.1502	-.1200	-.1045	.0000	-.0575	-.0649
100.000						-.3077	-.2618	-.2040	-.1553	-.1280	-.1005	-.1086	-.0753	-.0924	-.0598
110.000						-.4243	-.3246	-.2493	-.1757	-.1385	-.1210	-.0785	.0000	-.0859	-.0591
120.000						-.2912								-.0785	
130.000						-.3194								-.0989	
140.000						-.2976								-.0937	
150.000						-.2640								-.0834	
160.000						-.2317								-.0863	
170.000						-.2451								-.0730	
180.000						-.2260	-.1942	-.1757	-.1485	-.1448	-.1055	-.0727	-.0675	-.0585	-.0578

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .601 ALPHA (4) = -2.188

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0387	-.0531	-.0411	-.0333	-.0385	-.0356	-.0168	-.0220	-.0299	-.0558	-.0839	-.1143	-.1350	-.1386	-.1055
100.000	.0000	-.0731	-.0673	-.0456	-.0414	-.0459	-.0384	-.0473	-.0237	-.0751	-.0757	-.1009	-.1133	-.1081	-.0977
110.000	-.0602	.0000	-.0417	-.0463	-.0424	-.0453	-.0361	-.0355	-.0325	-.0387	-.0754	-.0793	-.0822	-.0858	-.0707
120.000						-.0456								-.0642	
130.000						-.0518								-.0361	
140.000						-.0554								-.0269	
150.000						-.0309								-.0105	
160.000						-.0335								-.0033	
170.000						-.0273								-.0053	
180.000	-.0715	-.0589	-.0531	-.0556	-.0637	-.0371	-.0384	-.0430	-.0469	-.0260	-.0904	-.0334	-.0177	.0009	.0568

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0652		
70.000							-.0922	-.0941	.0000
80.000							-.1191	-.1389	-.1066
90.000	-.1346	-.1127	-.1020	-.1080	-.1190	.0000	-.1311	-.1317	-.1113
100.000	-.1002	-.0688	-.0666	-.0729	-.1102	-.1543			
110.000	-.0601	-.0419	-.0281	-.0453	-.1517	-.2602			
120.000						-.4088			
130.000						-.2210			
140.000						-.0549			
150.000						.0489			
160.000						.0859			
170.000						.1146			
180.000	.0758	.1206	.1735	.2156	.2568	.4368			

MACH (1) = .599 ALPHA (5) = -.144

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1253	-.1644	-.2786												
70.000	-.0605	.0000	-.2536												
80.000	-.0510	-.1850	-.2536												
90.000			-.3407	-.4416	-.4785	-.2927	-.2137	-.1921	-.1385	-.1523	-.1220	-.1102	.0000	-.0716	-.0849
100.000						-.3103	-.2583	-.1999	-.1564	-.1203	-.1082	-.1119	-.0875	-.1141	-.0759
110.000						-.4046	-.3122	-.2360	-.1807	-.1321	-.1088	-.0820	.0000	-.0943	-.0807
120.000						-.3100								-.0687	
130.000						-.3363								-.0995	
140.000						-.3241								-.0989	
150.000						-.2799								-.0963	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .399 ALPHA (5) = -.144

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2566								-.0956	
170.000						-.2661								-.0940	
180.000						-.2418	-.2036	-.1638	-.1513	-.1540	-.1115	-.0931	-.0778	-.0875	-.0609

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0825	-.0515	-.0492	-.0398	-.0424	-.0443	-.0315	-.0476	-.0644	-.1025	-.1044	-.1406	-.1711	-.1554	-.1468
100.000	.0000	-.0742	-.0560	-.0502	-.0440	-.0586	-.0647	-.0601	-.0601	-.0973	-.0847	-.1278	-.1376	-.1261	-.1311
110.000	-.0802	.0000	-.0586	-.0512	-.0544	-.0525	-.0460	-.0506	-.0545	-.0690	-.0824	-.0985	-.1051	-.1035	-.0984
120.000						-.0495								-.0585	
130.000						-.0710								-.0391	
140.000						-.0766								-.0305	
150.000						-.0496								-.0203	
160.000						-.0493								-.0072	
170.000						-.0378								-.0118	
180.000	-.0645	-.0615	-.0515	-.0531	-.0596	-.0509	-.0591	-.0595	-.0595	-.0516	-.0851	-.0397	-.0246	-.0102	.0436

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0606		
70.000							-.0880	-.0845	.0000
80.000							-.1116	-.1364	-.0996
90.000	-.1664	-.1299	-.1129	-.1163	-.1289	.0000	-.1191	-.1327	-.0996
100.000	-.1151	-.0871	-.0820	-.0830	-.1299	-.1528			
110.000	-.0731	-.0477	-.0417	-.0597	-.1358	-.2409			
120.000						-.3771			
130.000						-.2034			
140.000						-.0669			
150.000						.0376			
160.000						.0789			
170.000						.1017			
180.000	.0536	.1008	.1452	.1899	.2388	.3819			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .599 ALPHA (6) = 2.022

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.1290	-.1607	-.2703												
70.000	-.0658	.0000	-.2444												
80.000	-.0679	-.1823	-.2538												
90.000			-.3139	-.4306	-.4630	-.2913	-.2201	-.2174	-.1397	-.1661	-.1300	-.1131	.0000	-.0800	-.0995
100.000						-.3081	-.2683	-.2221	-.1732	-.1276	-.1077	-.1276	-.0917	-.1173	-.0891
110.000						-.3814	-.3068	-.2450	-.1799	-.1303	-.1101	-.0949	.0000	-.1108	-.0862
120.000						-.3122								-.0807	
130.000						-.3625								-.0923	
140.000						-.3372								-.1108	
150.000						-.2896								-.0953	
160.000						-.2693								-.0998	
170.000						-.2771								-.0930	
180.000						-.2525	-.2157	-.1867	-.1577	-.1509	-.1111	-.0972	-.0839	-.0871	-.0751

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0657	-.0683	-.0628	-.0566	-.0550	-.0641	-.0565	-.0578	-.0864	-.1291	-.1429	-.1748	-.2100	-.1925	-.1662
100.000	.0000	-.0888	-.0807	-.0648	-.0518	-.0696	-.0712	-.0864	-.0745	-.1324	-.1229	-.1597	-.1735	-.1521	-.1404
110.000	-.0742	.0000	-.0690	-.0680	-.0615	-.0695	-.0666	-.0680	-.0795	-.0827	-.1163	-.1321	-.1337	-.1281	-.1143
120.000						-.0622								-.0690	
130.000						-.0788								-.0519	
140.000						-.0660								-.0427	
150.000						-.0440								-.0368	
160.000						-.0594								-.0331	
170.000						-.0331								-.0230	
180.000	-.0777	-.0732	-.0716	-.0557	-.0657	-.0607	-.0699	-.0683	-.0716	-.0627	-.0992	-.0473	-.0404	-.0082	.0224

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0638		
70.000							-.0922	-.0821	.0000
80.000							-.1082	-.1281	-.0956
90.000	-.1772	-.1495	-.1199	-.1353	-.1353	.0000	-.1133	-.1312	-.0941
100.000	-.1382	-.0944	-.0926	-.0900	-.1297	-.1548			
110.000	-.0941	-.0580	-.0337	-.0589	-.1419	-.2341			
120.000						-.3446			
130.000						-.1853			
140.000						-.0736			
150.000						.0073			
160.000						.0495			
170.000						.0914			
180.000	.0384	.0824	.1293	.1643	.2107	.3345			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .000 ALPHA (7) = 4.095

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1329	-.1551	-.2487												
70.000	-.0726	.0000	-.2426												
80.000	-.0726	-.1719	-.2534												
90.000			-.2884	-.4372	-.4709	-.2914	-.2030	-.2171	-.1455	-.1633	-.1340	-.1068	.0000	-.0799	-.1071
100.000						-.3180	-.2494	-.2158	-.1502	-.1236	-.1102	-.1377	-.1104	-.1424	-.0906
110.000						-.3665	-.2928	-.2380	-.1768	-.1404	-.1253	-.1049	.0000	-.1162	-.0842
120.000						-.3153								-.0816	
130.000						-.3948								-.0796	
140.000						-.3544								-.0974	
150.000						-.2975								-.0906	
160.000						-.2719								-.1000	
170.000						-.2803								-.0929	
180.000						-.2736	-.2242	-.1784	-.1532	-.1357	-.1092	-.1039	-.0942	-.0887	-.0761

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0709	-.0780	-.0725	-.0683	-.0883	-.0790	-.0758	-.0908	-.1053	-.1390	-.1587	-.1954	-.2230	-.2095	-.1930
100.000	.0000	-.0913	-.0803	-.0718	-.0696	-.0841	-.0961	-.0994	-.1030	-.1531	-.1423	-.1879	-.1915	-.1761	-.1755
110.000	-.0796	.0000	-.0757	-.0760	-.0686	-.0835	-.0862	-.0876	-.0971	-.1056	-.1318	-.1564	-.1545	-.1495	-.1384
120.000						-.0867								-.0794	
130.000						-.0787								-.0571	
140.000						-.0869								-.0574	
150.000						-.0603								-.0463	
160.000						-.0712								-.0322	
170.000						-.0564								-.0335	
180.000	-.0738	-.0780	-.0673	-.0692	-.0871	-.0666	-.0610	-.0761	-.0718	-.0758	-.1190	-.0522	-.0499	-.0236	.0103

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0475		
70.000							-.0934	-.0770	.0000
80.000							-.1059	-.1175	-.0927
90.000	-.2203	-.1720	-.1408	-.1308	-.1406	.0000	-.1166	-.1285	-.0987
100.000	-.1870	-.1130	-.0989	-.0961	-.1281	-.1589			
110.000	-.1143	-.0597	-.0252	-.0484	-.1247	-.2164			
120.000						-.2999			
130.000						-.1599			
140.000						-.0777			
150.000						.0011			
160.000						.0516			
170.000						.0965			
180.000	.0383	.0778	.1131	.1578	.1984	.2807			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .599 ALPHA (8) = 6.150

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1294	-.1426	-.2412												
70.000	-.0822	.0000	-.2321												
80.000	-.0771	-.1686	-.2284												
90.000			-.2625	-.4206	-.4562	-.3030	-.2132	-.2277	-.1417	-.1744	-.1514	-.1241	.0000	-.0976	-.1246
100.000						-.2949	-.2422	-.2132	-.1683	-.1417	-.1147	-.1238	-.1074	-.1392	-.1126
110.000						-.3469	-.2892	-.2439	-.1940	-.1440	-.1096	-.1061	.0000	-.1259	-.1119
120.000						-.3344								-.0931	
130.000						-.4147								-.1015	
140.000						-.3708								-.0999	
150.000						-.3209								-.1080	
160.000						-.2925								-.0986	
170.000						-.2952								-.1041	
180.000						-.2773	-.2196	-.1835	-.1633	-.1565	-.1062	-.1019	-.0879	-.1041	-.0899

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0950	-.0780	-.0897	-.0790	-.0696	-.0975	-.0976	-.1126	-.1341	-.1847	-.1970	-.2335	-.2424	-.2368	-.1998
100.000	.0000	-.0992	-.0982	-.0862	-.0940	-.0956	-.1114	-.1163	-.1337	-.2015	-.1648	-.2043	-.2181	-.1997	-.1869
110.000	-.0884	.0000	-.0641	-.0845	-.0953	-.1001	-.1101	-.1133	-.1311	-.1393	-.1536	-.1779	-.1799	-.1562	-.1501
120.000						-.0855								-.0921	
130.000						-.0828								-.0687	
140.000						-.0847								-.0549	
150.000						-.0620								-.0473	
160.000						-.0693								-.0233	
170.000						-.0604								-.0358	
180.000	-.0703	-.0719	-.0703	-.0630	-.0771	-.0502	-.0785	-.0801	-.0936	-.0818	-.1292	-.0680	-.0644	-.0213	.0019

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0432		
70.000							-.0844	-.0662	.0000
80.000							-.0794	-.1024	-.0721
90.000	-.2328	-.1812	-.1412	-.1387	-.1375	.0000	-.1128	-.1109	-.0712
100.000	-.1567	-.1205	-.1003	-.1054	-.1378	-.1509			
110.000	-.1173	-.0717	-.0368	-.0563	-.1361	-.2252			
120.000						-.2670			
130.000						-.1392			
140.000						-.1080			
150.000						-.0054			
160.000						.0504			
170.000						.1063			
180.000	.0072	.0832	.0995	.1241	.1836	.2617			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB007)

MACH (1) = .600 ALPHA (9) = 8.271

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1315	-.1527	-.2519												
70.000	-.0860	.0000	-.2321												
80.000	-.0961	-.1348	-.2273												
90.000			-.2566	-.4036	-.4666	-.2936	-.2271	-.2133	-.1773	-.1965	-.1763	-.1517	.0000	-.1025	-.1245
100.000						-.3034	-.2796	-.2345	-.1770	-.1568	-.1393	-.1517	-.1251	-.1594	-.1128
110.000						-.3559	-.3025	-.2658	-.2049	-.1699	-.1393	-.1219	.0000	-.1419	-.1128
120.000						-.3246								-.0911	
130.000						-.4289								-.0908	
140.000						-.3865								-.1008	
150.000						-.3165								-.0960	
160.000						-.2903								-.0953	
170.000						-.2842								-.1005	
180.000						-.2765	-.2308	-.1928	-.1786	-.1608	-.1154	-.1018	-.0934	-.0885	-.0892

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0928	-.0987	-.1016	-.1113	-.0915	-.1291	-.1088	-.1327	-.1691	-.2041	-.2180	-.2787	-.2984	-.2793	-.2153
100.000	.0000	-.1229	-.1233	-.1110	-.1013	-.1242	-.1412	-.1324	-.1396	-.2163	-.2124	-.2479	-.2508	-.2279	-.2050
110.000	-.1103	.0000	-.1032	-.1155	-.1229	-.1307	-.1343	-.1419	-.1468	-.1573	-.1905	-.2144	-.2010	-.1878	-.1683
120.000						-.1191								-.1088	
130.000						-.0885								-.0934	
140.000						-.0901								-.0813	
150.000						-.0734								-.0691	
160.000						-.0822								-.0541	
170.000						-.0573								-.0603	
180.000	-.0983	-.0828	-.0760	-.0760	-.1051	-.0721	-.0832	-.0845	-.0921	-.0888	-.1646	-.0862	-.0718	-.0455	-.0090

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0473		
70.000							-.0856	-.0788	.0000
80.000							-.1091	-.1107	-.0918
90.000	-.2428	-.1890	-.1482	-.1354	-.1147	.0000	-.1041	-.1201	-.0953
100.000	-.1887	-.1253	-.0908	-.0861	-.1213	-.1317			
110.000	-.1231	-.0873	-.0378	-.0325	-.1229	-.2268			
120.000						-.2428			
130.000						-.1398			
140.000						-.1151			
150.000						-.0332			
160.000						.0438			
170.000						.1179			
180.000	.0151	.0378	.0964	.1188	.1578	.2897			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (RE0008) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = .753 ALPHA (1) = -8.391

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1388	-.2216	-.4115												
70.000	-.0630	.0000	-.3723												
80.000	.0031	-.2494	-.3668												
90.000			-.5055	-.5700	-.5224	-.3252	-.2318	-.2907	-.1330	-.1238	-.0853	-.0875	.0000	-.0245	-.0426
100.000						-.3598	-.2797	-.2244	-.1556	-.1219	-.0942	-.0899	-.0632	-.0583	-.0449
110.000						-.5909	-.3769	-.2710	-.1847	-.1395	-.3184	-.0949	.0000	-.0801	-.0438
120.000						-.3175								-.0815	
130.000						-.2869								-.2900	
140.000						-.2557								-.0681	
150.000						-.2162								-.0769	
160.000						-.1996								-.0576	
170.000						-.2153								-.0495	
180.000						-.1636	-.1633	-.1411	-.1207	-.1012	-.0620	-.0463	-.0364	-.0081	-.0070

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0141	.0094	-.0004	.0108	.0054	.0196	.0602	.0633	.0554	.0484	.0163	-.0129	-.0363	-.0551	-.0271
100.000	.0000	-.0456	-.0365	-.0155	.0080	.0075	.0313	.0343	.0431	.0215	.0045	-.0189	-.0370	-.0384	-.0453
110.000	-.0911	.0000	-.0312	-.0287	.0019	-.0007	.0152	.0252	.0308	.0262	.0325	.0024	-.0007	-.0145	-.0046
120.000						-.1831								.0072	
130.000						-.0410								.0191	
140.000						-.0350								.0214	
150.000						.0197								.0344	
160.000						.0084								.0495	
170.000						.0252								.0457	
180.000	-.0289	-.0257	-.0039	-.0041	-.2271	.0180	.0199	.0117	.0166	.0387	-.2666	.0144	.0488	.0636	.1218

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0894		
70.000							-.1067	-.0914	.0000
80.000							-.1417	-.1853	-.1552
90.000	-.0343	-.0198	-.0724	-.1012	-.1355	.0000	-.1320	-.1642	-.2504
100.000	-.0347	-.0266	-.0329	-.0509	-.1243	-.1716			
110.000	.0059	.0012	.0010	-.0264	-.1628	-.2846			
120.000						-.5422			

DATE 04 MAR 74 TABULATED SOURCE DATA - IA29/0A03

AMES 06-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .753 ALPHA (1) = -8.391

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.2749			
140.000						.0337			
150.000						.1549			
160.000						.1807			
170.000						.1964			
180.000	.0084	.2089	.2656	.3249	.3697	.3765			

MACH (1) = .751 ALPHA (2) = -6.311

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1290	-.1971	-.3762												
70.000	-.0531	.0000	-.3363												
80.000	.0020	-.2157	-.3665												
90.000			-.4611	-.5784	-.5369	-.3092	-.2442	-.1907	-.1251	-.1007	-.0841	-.0819	.0000	-.0400	-.0563
100.000						-.3571	-.2616	-.2073	-.1412	-.1164	-.0993	-.0971	-.0633	-.0714	-.0684
110.000						-.5168	-.3851	-.2669	-.1697	-.1335	-.1931	-.0784	.0000	-.0765	-.0563
120.000						-.3367								-.0888	
130.000						-.3073								-.2123	
140.000						-.2972								-.0905	
150.000						-.2459								-.0677	
160.000						-.2150								-.0688	
170.000						-.2271								-.0449	
180.000						-.2150	-.1661	-.1502	-.1313	-.1190	-.0727	-.0574	-.0388	-.0519	-.0168

X/L	.4900	.4680	.4080	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0191	-.0253	-.0125	.0109	.0035	.0156	.0330	.0310	.0316	.0107	-.0201	-.0401	-.0580	-.0495	-.0522
100.000	.0000	-.0304	-.0302	-.0153	-.0047	.0014	.0001	.0048	.0121	-.0044	-.0145	-.0411	-.0479	-.0474	-.0619
110.000	-.0618	.0000	-.0232	.0012	.0074	.0042	.0105	.0214	.0102	.0072	-.0094	-.0168	-.0213	-.0345	-.0200
120.000						-.0639								-.0204	
130.000						-.0357								.0195	
140.000						-.0435								.0123	
150.000						.0121								.0188	
160.000						-.0131								.0419	
170.000						-.0013								.0237	
180.000	-.0425	-.0204	-.0049	-.0183	-.1082	.0128	-.0077	-.0122	-.0192	.0039	-.1269	.0130	.0228	.0356	.0803

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .751 ALPHA (2) = -6.311

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7490	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0714		
70.000							-.1117	-.0894	.0000
80.000							-.1487	-.1670	-.1365
90.000	-.0872	-.0545	-.0696	-.1100	-.1445	.0000	-.1528	-.1640	-.1571
100.000	-.0530	-.0430	-.0561	-.0843	-.1305	-.1760			
110.000	-.0216	-.0209	-.0116	-.0496	-.1906	-.3254			
120.000						-.5346			
130.000						-.2686			
140.000						.0196			
150.000						.1434			
160.000						.1579			
170.000						.1697			
180.000	.0653	.1775	.2219	.2809	.3426	.5519			

MACH (1) = .752 ALPHA (3) = -4.262

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1237	-.1803	-.3322												
70.000	-.0456	.0000	-.2867												
80.000	.0012	-.2088	-.3100												
90.000			-.4270	-.5368	-.5253	-.3026	-.2342	-.1922	-.1399	-.1479	-.1093	-.0944	.0000	-.0384	-.0643
100.000						-.3264	-.2872	-.2101	-.1554	-.1211	-.0934	-.1076	-.0667	-.0860	-.0593
110.000						-.4870	-.3617	-.2694	-.1816	-.1370	-.1496	-.0783	.0000	-.0860	-.0581
120.000						-.3168								[illegible]	
130.000						-.3187								[illegible]	
140.000						-.2949								[illegible]	
150.000						-.2565								-.0653	
160.000						-.2367								-.0695	
170.000						-.2317								-.0665	
180.000						-.2040	-.1802	-.1595	-.1404	-.1329	-.0847	-.0667	-.052.	[illegible]	-.0426

X/L	.4500	.4680	.4880	.9090	.9240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0345	-.0412	-.0259	-.0186	-.0235	.0034	.0317	.0242	.0127	-.0169	-.0483	-.0754	-.1116	-.1036	-.0808
100.000	.0000	-.0658	-.0460	-.0305	-.0170	-.0180	.0099	-.0077	.0127	-.0399	-.0478	-.0711	-.0920	-.0775	-.0837
110.000	-.0844	.0000	-.0437	-.0300	-.0214	-.0233	.0038	.0076	-.0070	-.0155	-.0391	-.0455	-.0645	-.0657	-.0484
120.000						-.0484								-.0467	
130.000						-.0521								-.0225	
140.000						-.0502								-.0088	
150.000						-.0056								.0084	

AMES 06-030 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .752 ALPHA (3) = -4.262

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4300	.4600	.4800	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0195								.0122	
170.000						-.0085								-.0054	
160.000	-.0655	-.0423	-.0391	-.0284	-.0764	-.0051	-.0171	-.0211	-.0303	-.0180	-.0078	-.0194	-.0090	.0132	.0730

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0851		
70.000							-.1124	-.1103	.0000
60.000							-.1486	-.1599	-.1335
50.000	-.1145	-.0916	-.0834	-.1256	-.1569	.0000	-.1524	-.1511	-.1482
100.000	-.0799	-.0518	-.0846	-.0896	-.1517	-.2083			
110.000	-.0259	-.0845	-.0257	-.0547	-.1830	-.3167			
120.000						-.5112			
130.000						-.2566			
140.000						-.0027			
150.000						.1010			
160.000						.1254			
170.000						.1522			
180.000	.1012	.1550	.2134	.2578	.3084	.4918			

MACH (1) = .748 ALPHA (4) = -2.114

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1418	-.1941	-.3508												
70.000	-.0832	.0000	-.3174												
80.000	-.0428	-.2179	-.3290												
90.000			-.4080	-.5465	-.5506	-.3125	-.2195	-.1769	-.1468	-.1425	-.1187	-.0962	.0000	-.0677	-.0808
100.000						-.3392	-.2858	-.2078	-.1565	-.1231	-.0976	-.1076	-.0847	-.1065	-.0684
110.000						-.4582	-.3319	-.2549	-.1773	-.1383	-.1105	-.0969	.0000	-.0918	-.0717
120.000						-.3331								-.0766	
130.000						-.3513								-.1172	
140.000						-.3178								-.1009	
150.000						-.2851								-.0883	
160.000						-.2717								-.0899	
170.000						-.2494								-.0819	
180.000						-.2392	-.1733	-.1509	-.1429	-.1313	-.0947	-.0859	-.0789	-.0829	-.0670

X/L	.4300	.4600	.4800	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB058)

MACH (1) = .748 ALPHA (4) = -2.114

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0358	-.0391	-.0351	-.0239	-.0213	-.0216	-.0161	-.0154	-.0263	-.0606	-.0648	-.1126	-.1402	-.1407	-.1435
100.000	.0000	-.0640	-.0528	-.0400	-.0281	-.0302	-.0346	-.0350	-.0256	-.0802	-.0980	-.0955	-.1211	-.1057	-.1222
110.000	-.0470	.0000	-.0451	-.0384	-.0321	-.0316	-.0329	-.0246	-.0395	-.0484	-.0582	-.0783	-.0837	-.0892	-.0977
120.000						-.0286								-.0606	
130.000						-.0793								-.0410	
140.000						-.0584								-.0206	
150.000						-.0445								-.0169	
160.000						-.0452								-.0102	
170.000						-.0372								-.0095	
180.000	-.0631	-.0490	-.0477	-.0419	-.0505	-.0421	-.0499	-.0549	-.0539	-.0483	-.0837	-.0339	-.0292	.0039	.0358

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0920		
70.000							-.1221	-.1214	.0000
80.000							-.1492	-.1675	-.1144
90.000	-.1697	-.1403	-.1222	-.1425	-.1742	.0000	-.1540	-.1626	-.1227
100.000	-.1077	-.0889	-.0909	-.1027	-.1665	-.1993			
110.000	-.0841	-.0806	-.0493	-.0740	-.1614	-.3094			
120.000						-.4753			
130.000						-.2309			
140.000						-.0173			
150.000						.0834			
160.000						.1074			
170.000						.1333			
180.000	.0304	.1139	1725	.2137	.2852	.4562			

MACH (1) = .749 ALPHA (5) = -.043

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1270	-.1828	-.3452												
70.000	-.0819	.0000	-.3053												
60.000	-.0508	-.1887	-.3040												
90.000			-.3755	-.5340	-.5546	-.3120	-.2274	-.1880	-.1575	-.1399	-.1282	-.1107	.0000	-.3782	-.0832
100.000						-.3479	-.2708	-.2197	-.1616	-.1354	-.1151	-.1245	-.0846	-.1130	-.0741
110.000						-.4371	-.3207	-.2529	-.1870	-.1388	-.1214	-.0953	.0000	-.0909	-.0657
120.000						-.5283								-.0804	
130.000						-.3717								-.0953	
140.000						-.3440								-.0925	
150.000						-.3312								-.0921	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .749 ALPHA (5) = -.043

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.3501								-.0904	
170.000						-.3154								-.0900	
160.000						-.3077	-.1870	-.1555	-.1449	-.1354	-.1027	-.0907	-.0781	-.0783	-.0659

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0552	-.0604	-.0546	-.0481	-.0436	-.0427	-.0232	-.0282	-.0525	-.0788	-.1038	-.1263	-.1884	-.1856	-.1643
100.000	.0000	-.0721	-.0651	-.0553	-.0399	-.0518	-.0506	-.0476	-.0412	-.0913	-.0877	-.1390	-.1629	-.1515	-.1566
110.000	-.0583	.0000	-.0572	-.0565	-.0448	-.0551	-.0466	-.0403	-.0469	-.0643	-.0948	-.1203	-.1284	-.1265	-.1215
120.000						-.0518								-.0818	
130.000						-.0811								-.0547	
140.000						-.0795								-.0502	
150.000						-.0424								-.0403	
160.000						-.0514								-.0303	
170.000						-.0436								-.0322	
180.000	-.0869	-.0646	-.0609	-.0635	-.0614	-.0504	-.0587	-.0639	-.0672	-.0589	-.0913	-.0537	-.0492	-.0240	.0236

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0961		
70.000							-.1316	-.1169	.0000
80.000							-.1547	-.1640	-.1122
90.000	-.1975	-.1674	-.1489	-.1613	-.1831	.0000	-.1635	-.1744	-.1323
100.000	-.1432	-.1077	-.1030	-.1166	-.1706	-.2049			
110.000	-.0976	-.0706	-.0596	-.0645	-.1660	-.3040			
120.000						-.4585			
130.000						-.2268			
140.000						-.0441			
150.000						.0484			
160.000						.0726			
170.000						.1090			
180.000	.0074	.1110	.1629	.2076	.2476	.3802			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .751 ALPHA (6) = 2.181

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1255	-.1720	-.3254												
70.000	-.0558	.0000	-.2325												
80.000	-.0555	-.1817	-.2849												
90.000			-.3442	-.5075	-.5676	-.3220	-.2265	-.2021	-.1580	-.1611	-.1283	-.1167	.0000	-.0899	-.0955
100.000						-.3423	-.2793	-.2236	-.1703	-.1351	-.1083	-.1315	-.1004	-.1166	-.0853
110.000						-.4123	-.3133	-.2542	-.1790	-.1353	-.1187	-.0932	.0000	-.1048	-.0862
120.000						-.3406								-.0883	
130.000						-.4038								-.0879	
140.000						-.3915								-.1029	
150.000						-.3990								-.0976	
160.000						-.4120								-.0874	
170.000						-.3647								-.0897	
180.000						-.3770	-.2233	-.1568	-.1387	-.1298	-.1013	-.0846	-.0767	-.0832	-.0735

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0556	-.0656	-.0619	-.0452	-.0561	-.0631	-.0501	-.0463	-.0847	-.1180	-.1385	-.1931	-.2241	-.2154	-.2015
100.000	.0000	-.0914	-.0744	-.0677	-.0496	-.0679	-.0637	-.0722	-.0703	-.1359	-.1251	-.1743	-.2030	-.1849	-.1907
110.000	-.0744	.0000	-.0566	-.0563	-.0610	-.0682	-.0609	-.0666	-.0760	-.0849	-.1207	-.1479	-.1494	-.1559	-.1493
120.000						-.0607								-.0971	
130.000						-.0849								-.0715	
140.000						-.0840								-.0550	
150.000						-.0461								-.0555	
160.000						-.0618								-.0438	
170.000						-.0576								-.0609	
180.000	-.0798	-.0733	-.0679	-.0649	-.0593	-.0574	-.0762	-.0840	-.0849	-.0760	-.1056	-.0736	-.0661	-.0393	.0110

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0903		
70.000							-.1315	-.1106	.0000
80.000							-.1556	-.1489	-.1167
90.000	-.2470	-.1883	-.1610	-.1777	-.1797	.0000	-.1556	-.1601	-.1167
100.000	-.1727	-.1311	-.1236	-.1349	-.1840	-.2113			
110.000	-.1230	-.0757	-.0831	-.0856	-.1705	-.2982			
120.000						-.4153			
130.000						-.2223			
140.000						-.0642			
150.000						.0204			
160.000						.0555			
170.000						.1058			
180.000	.0224	.0821	.1360	.1684	.2118	.3295			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .750 ALPHA (7) = 4.292

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1398	-.1758	-.2949												
70.000	-.0817	.0000	-.2716												
80.000	-.0827	-.1824	-.2789												
90.000			-.3180	-.5122	-.5652	-.3277	-.2372	-.2981	-.1661	-.1770	-.1362	-.1245	.0000	-.0912	-.1064
100.000						-.3493	-.2603	-.2370	-.1712	-.1471	-.1104	-.1391	-.0978	-.1249	-.0959
110.000						-.3912	-.3168	-.2625	-.1911	-.1515	-.1119	-.1043	.0000	-.1184	-.0863
120.000						-.3564								-.0765	
130.000						-.4325								-.0817	
140.000						-.4344								-.1015	
150.000						-.4573								-.0917	
160.000						-.4949								-.1004	
170.000						-.4565								-.0894	
180.000						-.4378	-.2700	-.1707	-.1345	-.1226	-.0973	-.0896	-.0777	-.0845	-.0824

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0774	-.0776	-.0701	-.0671	-.0608	-.0685	-.0660	-.0814	-.0996	-.1439	-.1723	-.2322	-.2771	-.2672	-.2419
100.000	.0000	-.0860	-.0816	-.0722	-.0634	-.0807	-.0849	-.0956	-.0913	-.1669	-.1434	-.2021	-.2324	-.2236	-.2258
110.000	-.0727	.0000	-.0732	-.0778	-.0697	-.0814	-.0823	-.0868	-.0977	-.1153	-.1514	-.1836	-.1791	-.1902	-.1654
120.000						-.0699								-.1114	
130.000						-.0909								-.0849	
140.000						-.0966								-.0704	
150.000						-.0641								-.0697	
160.000						-.0577								-.0607	
170.000						-.0665								-.0629	
180.000	-.0673	-.0739	-.0706	-.0736	-.0573	-.0714	-.0785	-.0992	-.1096	-.0904	-.1256	-.0790	-.0771	-.0506	.0018

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0905		
70.000							-.1291	-.1021	.0000
80.000							-.1434	-.1411	-.1019
90.000	-.2687	-.2158	-.1918	-.1777	-.1947	.0000	-.1624	-.1601	-.0978
100.000	-.2077	-.1407	-.1412	-.1441	-.1811	-.2010			
110.000	-.1573	-.1010	-.0670	-.0901	-.1697	-.2878			
120.000						-.3694			
130.000						-.2069			
140.000						-.0776			
150.000						.0052			
160.000						.0550			
170.000						.1023			
180.000	-.0418	.0577	.1176	.1383	.2011	.3023			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .749 ALPHA (3) = 6.422

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1424	-.1791	-.2733												
70.000	-.0911	.0000	-.2522												
80.000	-.0884	-.1653	-.2616												
90.000			-.2845	-.5060	-.5680	-.3366	-.2451	-.3197	-.1744	-.1885	-.1566	-.1442	.0000	-.0946	-.1134
100.000						-.3651	-.2777	-.2388	-.1872	-.1573	-.1408	-.1466	-.1066	-.1424	-.0946
110.000						-.3930	-.3260	-.2704	-.2057	-.1661	-.1369	-.1113	.0000	-.1368	-.0979
120.000						-.3687								-.0747	
130.000						-.4807								-.0752	
140.000						-.4821								-.0982	
150.000						-.5802								-.0867	
160.000						-.5970								-.0867	
170.000						-.6099								-.0743	
180.000						-.5921	-.3581	-.2050	-.1362	-.1265	-.0992	-.0747	-.0661	-.0715	-.0621

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0825	-.0825	-.0708	-.0724	-.0787	-.0755	-.0794	-.0965	-.1242	-.1835	-.2067	-.2662	-.3215	-.3056	-.2816
100.000	.0000	-.1064	-.0968	-.0879	-.0872	-.1117	-.1034	-.1145	-.1100	-.1840	-.1884	-.2444	-.2693	-.2707	-.2494
110.000	-.0911	.0000	-.0832	-.0886	-.0900	-.1075	-.1121	-.1017	-.1124	-.1387	-.1666	-.2053	-.2148	-.2169	-.2085
120.000						-.0991								-.1474	
130.000						-.0979								-.1201	
140.000						-.0998								-.1121	
150.000						-.0751								-.0701	
160.000						-.0756								-.0865	
170.000						-.0735								-.0934	
180.000	-.0797	-.0794	-.0794	-.0886	-.0851	-.0614	-.0825	-.1076	-.1107	-.1041	-.1609	-.1040	-.0943	-.0846	-.0273

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0842		
70.000							-.1307	-.0953	.0000
80.000							-.1380	-.1511	-.1025
90.000	-.3121	-.2530	-.1886	-.1763	-.1876	.0000	-.1520	-.1339	-.1064
100.000	-.2346	-.1699	-.1486	-.1368	-.1842	-.2018			
110.000	-.1733	-.1116	-.0782	-.1023	-.1554	-.2762			
120.000						-.3409			
130.000						-.1820			
140.000						-.0980			
150.000						-.0070			
160.000						.0477			
170.000						.1032			
180.000	-.0284	.0453	.0949	.1265	.1654	.3088			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (1) = .750 ALPHA (9) = 8.527

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1302	-.1689	-.2784												
70.000	-.0919	.0000	-.2369												
80.000	-.0951	-.1449	-.2366												
90.000			-.2648	-.4712	-.5666	-.3357	-.2600	-.4123	-.1777	-.2010	-.1660	-.1408	.0000	-.1077	-.1367
100.000						-.3462	-.2877	-.2391	-.1918	-.1568	-.1432	-.1631	-.1192	-.1512	-.1236
110.000						-.3916	-.3288	-.2945	-.2207	-.1835	-.1306	-.1273	.0000	-.1376	-.1105
120.000						-.3836								-.0867	
130.000						-.5285								-.0960	
140.000						-.5360								-.1012	
150.000						-.5839								-.0981	
160.000						-.6137								-.0914	
170.000						-.6543								-.0727	
180.000						-.6497	-.4524	-.2965	-.1648	-.1141	-.0852	-.0696	-.0631	-.0699	-.0696

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0942	-.0971	-.0940	-.0887	-.0744	-.1011	-.1005	-.1204	-.1575	-.2136	-.2559	-.3167	-.3506	-.3671	-.2987
100.000	.0000	-.1120	-.1125	-.0978	-.0826	-.1144	-.1227	-.1334	-.1388	-.2190	-.2350	-.2911	-.3217	-.2871	-.2613
110.000	-.1084	.0000	-.0847	-.1074	-.0978	-.1146	-.1298	-.1336	-.1537	-.1677	-.2023	-.2542	-.2540	-.2530	-.2303
120.000						-.1046								-.1538	
130.000						-.1054								-.1410	
140.000						-.1078								-.1162	
150.000						-.0818								-.1067	
160.000						-.0811								-.0835	
170.000						-.0744								-.1003	
180.000	-.0765	-.0784	-.0765	-.0781	-.0689	-.0820	-.1116	-.1201	-.1298	-.1177	-.1772	-.1233	-.1079	-.0941	-.0446

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0741		
70.000							-.1081	-.0779	.0000
80.000							-.1353	-.1244	-.0895
90.000	-.3377	-.2881	-.2180	-.1981	-.1974	.0000	-.1436	-.1470	-.0926
100.000	-.2929	-.1915	-.1652	-.1471	-.1886	-.2062			
110.000	-.1897	-.1144	-.0979	-.0988	-.1878	-.2744			
120.000						-.3102			
130.000						-.1892			
140.000						-.1137			
150.000						-.0045			
160.000						.0472			
170.000						.1165			
180.000	-.0494	.0291	.0732	.1126	.1514	.3099			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = .850 ALPHA (1) = -8.266

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0866	-.1824	-.5128												
70.000	-.0139	.0000	-.4183												
80.000	.0393	-.1809	-.4087												
90.000			-.5043	-.8340	-.9086	-.5431	-.2456	-.2053	-.0862	-.0699	-.0463	-.0428	.0000	-.0315	-.0579
100.000						-.5912	-.4454	-.2251	-.1412	-.0804	-.0753	-.0768	-.0699	-.0754	-.0568
110.000						-.5631	-.4046	-.2753	-.1822	-.1236	-.3873	-.0894	.0000	-.0782	-.0585
120.000						-.3888								-.0881	
130.000						-.3340								-.3215	
140.000						-.2747								-.0742	
150.000						-.2043								-.0776	
160.000						-.1695								-.0660	
170.000						-.1492								-.0480	
180.000						-.1334	-.1020	-.1080	-.0969	-.1053	-.0635	-.0570	-.0360	-.0435	-.0233

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0207	-.0022	.0006	.0178	.0217	.0321	.0506	.0581	.0521	.0360	.0528	.0206	-.0189	-.0276	-.0187
100.000	.0000	-.0329	-.0187	.0049	.0118	.0096	.0156	.0375	.0317	.0074	.0236	.0031	-.0169	-.0102	-.0322
110.000	-.0187	.0000	-.0131	-.0131	.0066	.0198	.0257	.0328	.0379	.0302	.0288	.0163	.0167	-.0006	-.0045
120.000						-.0706								.0193	
130.000						-.0369								.0309	
140.000						-.0347								.0324	
150.000						.0020								.0490	
160.000						.0005								.0657	
170.000						.0190								.0550	
180.000	-.0211	.0045	.0066	.0213	-.1021	.0192	.0194	.0186	.0018	.0261	-.1297	.0421	.0679	.0810	.1117

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1388		
70.000							-.1900	-.1842	.0000
80.000							-.2179	-.2514	-.1941
90.000	-.0847	-.0031	-.0372	-.1088	-.1762	.0000	-.1989	-.2177	-.3093
100.000	-.0378	-.0066	-.0353	-.0738	-.1350	-.2135			
110.000	.0081	.0217	.0104	-.0358	-.1465	-.3247			
120.000						-.5462			
130.000						-.2360			
140.000						.0762			
150.000						.2026			
160.000						.2193			
170.000						.2522			
180.000	.0250	.2127	.2667	.3272	.4087	.6216			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8008)

MACH (2) = .890 ALPHA (2) = -4.141

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0980	-.1894	-.4676												
70.000	-.0245	.0000	-.4016												
80.000	.0099	-.1894	-.3829												
90.000			-.4489	-.8024	-1.0040	-.5178	-.3456	-.1025	-.0831	-.0758	-.0602	-.0575	.0000	-.0329	-.0633
100.000						-.5579	-.4759	-.1910	-.1150	-.0642	-.0322	-.0754	-.0543	-.0766	-.0567
110.000						-.5588	-.4501	-.2618	-.1642	-.1016	-.2168	-.0751	.0000	-.0753	-.0569
120.000						-.5095								-.0579	
130.000						-.4957								-.1928	
140.000						-.5124								-.0738	
150.000						-.3194								-.0835	
160.000						-.2670								-.0757	
170.000						-.2717								-.0790	
180.000						-.2665	-.0932	-.0798	-.0930	-.1074	-.0693	-.0609	-.0567	-.0637	-.0419

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0268	-.0187	-.0107	-.0013	.0006	.0103	.0288	.0369	.0167	-.0046	-.0138	-.0595	-.1014	-.0999	-.0822
100.000	.0000	-.0524	-.0371	-.0221	-.0049	-.0079	-.0049	.0081	.0066	-.0309	-.0201	-.0553	-.0832	-.0710	-.0884
110.000	-.0384	.0000	-.0313	-.0266	-.0114	-.0086	-.0009	.0045	-.0094	-.0057	-.0136	-.0436	-.0473	-.0492	-.0609
120.000						-.0367								-.0327	
130.000						-.0438								-.0112	
140.000						-.0477								-.0040	
150.000						-.0144								-.0021	
160.000						-.0203								.0073	
170.000						-.0083								.0112	
180.000	-.0481	-.0281	-.0200	-.0284	-.0595	-.0159	-.0203	-.0301	-.0396	-.0235	-.0784	-.0166	-.0079	.0103	.0683

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1660		
70.000							-.2006	-.1666	.0000
80.000							-.2321	-.2235	-.1525
90.000	-.1304	-.0722	-.1096	-.1587	-.2050	.0000	-.2598	-.2202	-.1993
100.000	-.0883	-.0557	-.0709	-.1069	-.1835	-.2727			
110.000	-.0466	-.0151	-.0183	.0580	-.1854	-.3964			
120.000						-.5233			
130.000						-.2202			
140.000						.0284			
150.000						.1369			
160.000						.1610			
170.000						.1825			
180.000	-.0468	.1698	.2183	.2762	.3398	.5243			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A29/0A63

AMES 96-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = .850 ALPHA (3) = -2.029

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0992	-.1865	-.4499												
70.000	-.0277	.0000	-.3700												
80.000	-.0058	-.1813	-.3535												
90.000			-.4143	-.7575	-.9118	-.4187	-.2338	-.3850	-.1069	-.1135	-.0835	-.0766	.0000	-.0513	-.0698
100.000						-.5448	-.3341	-.1836	-.1135	-.0857	-.0715	-.0860	-.0659	-.0813	-.0685
110.000						-.5417	-.3094	-.2343	-.1589	-.1126	-.1389	-.0704	.0000	-.0856	-.0616
120.000						-.5274								-.0680	
130.000						-.5290								-.1283	
140.000						-.6100								-.0813	
150.000						-.5938								-.0620	
160.000						-.6127								-.0865	
170.000						-.3575								-.0505	
180.000						-.5958	-.4066	-.2303	-.1064	-.0677	-.0362	-.0657	-.0466	-.0597	-.0393

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0365	-.0318	-.0348	-.0166	-.0155	-.0089	.0081	.0134	-.0036	-.0371	-.0494	-.0970	-.1332	-.1489	-.1324
100.000	.0000	-.0586	-.0487	-.0335	-.0213	-.0189	-.0156	-.0156	-.0038	-.0575	-.0477	-.0978	-.1209	- 1133	-.1297
110.000	-.0502	.0000	-.0374	-.0427	-.0311	-.0296	-.0247	-.0197	-.0182	-.0277	-.0501	-.0840	-.0835	-.0896	-.0989
120.000						-.0309								-.0631	
130.000						-.0507								-.0392	
140.000						-.0646								-.0388	
150.000						-.0258								-.0221	
160.000						-.0410								-.0125	
170.000						-.0292								-.0308	
180.000	-.0481	-.0446	-.0318	-.0361	-.0453	-.0236	-.0516	-.0538	-.0629	-.0386	-.0688	-.0364	-.0282	-.0147	.0335

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1709		
70.000							-.2080	-.1782	.0000
80.000							-.2323	-.2302	-.1599
90.000	-.1802	-.1082	-.1476	-.1809	-.2301	.0000	-.2714	-.2142	-.1674
100.000	-.1280	-.1052	-.1014	-.1305	-.2120	-.2974			
110.000	-.0902	-.0447	-.0451	-.0856	-.1874	-.4009			
120.000						-.5130			
130.000						-.2211			
140.000						.0087			
150.000						.1045			
160.000						.1177			
170.000						.1578			
180.000	-.0869	.1287	.1665	.2280	.2910	.4444			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = .691 ALPHA (4) = .075

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1070	-.1878	-.4432												
70.000	-.0391	.0000	-.3601												
80.000	-.0280	-.1734	-.3448												
90.000			-.3753	-.7085	-.6761	-.4347	-.2183	-.5378	-.1363	-.1481	-.1221	-.0900	.0000	-.0623	-.0773
100.000						-.4993	-.2790	-.2123	-.1601	-.1207	-.0865	-.1016	-.0704	-.1070	-.0672
110.000						-.5560	-.3162	-.2532	-.1945	-.1456	-.1192	-.0770	.0000	-.0982	-.0616
120.000						-.6052								-.0616	
130.000						-.5823								-.1047	
140.000						-.6442								-.0500	
150.000						-.6738								-.0387	
160.000						-.7107								-.0359	
170.000						-.7197								-.0338	
180.000						-.7183	-.5443	-.3784	-.2170	-.1369	-.0665	-.0387	-.0276	-.0246	-.0293

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0419	-.0431	-.0333	-.0268	-.0230	-.0213	-.0058	-.0138	-.0292	-.0709	-.0803	-.1352	-.1829	-.1964	-.1828
100.000	.0000	-.0643	-.0573	-.0358	-.0322	-.0337	-.0336	-.0314	-.0290	-.0813	-.0731	-.1335	-.1608	-.1563	-.1699
110.000	-.0459	.0000	-.0408	-.0436	-.0401	-.0408	-.0479	-.0307	-.0392	-.0490	-.0803	-.1102	-.1202	-.1350	-.1412
120.000						-.0416								-.0879	
130.000						-.0598								-.0638	
140.000						-.0587								-.0477	
150.000						-.0351								-.0473	
160.000						-.0396								-.0410	
170.000						-.0403								-.0351	
180.000	-.0365	-.0421	-.0371	-.0403	-.0457	-.0405	-.0540	-.0609	-.0696	-.0696	-.0768	-.0607	-.0529	-.0308	.0014

X/L	.7280	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1755		
70.000							-.2110	-.1744	.0000
80.000							-.2385	-.2139	-.1330
90.000	-.2364	-.1570	-.1743	-.2206	-.2493	.0000	-.2557	-.2137	-.1457
100.000	-.1736	-.1416	-.1379	-.1630	-.2497	-.3083			
110.000	-.1190	-.0899	-.0674	-.1080	-.2000	-.4027			
120.000						-.4996			
130.000						-.2254			
140.000						-.0299			
150.000						.0637			
160.000						.0748			
170.000						.1205			
180.000	-.1030	.0907	.1432	.1882	.2446	.3887			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (Z) = .849 ALPHA (S) = 2.333

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1228	-.1948	-.4085												
70.000	-.0804	.0000	-.3274												
80.000	-.0537	-.1718	-.3214												
90.000			-.3501	-.6640	-.8554	-.4931	-.2358	-.6392	-.1654	-.1745	-.1433	-.1384	.0000	-.0744	-.0813
100.000						-.5540	-.2904	-.2349	-.1850	-.1476	-.1235	-.1391	-.0898	-.1066	-.0778
110.000						-.6863	-.3258	-.2741	-.2313	-.1716	-.1249	-.0901	.0000	-.0881	-.0622
120.000						-.6120								-.0783	
130.000						-.6165								-.0851	
140.000						-.6805								-.0540	
150.000						-.7157								-.0377	
160.000						-.7324								-.0399	
170.000						-.7529								-.0274	
180.000						-.7453	-.6343	-.4986	-.3456	-.2077	-.1376	-.0946	-.0491	-.0190	-.0120

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0512	-.0528	-.0406	-.0453	-.0446	-.0384	-.0207	-.0296	-.0413	-.0924	-.1325	-.1897	-.2366	-.2532	-.2407
100.000	.0000	-.0747	-.0633	-.0539	-.0376	-.0562	-.0365	-.0498	-.0448	-.1013	-.1105	-.1701	-.2108	-.2129	-.2243
110.000	-.0568	.0000	-.0421	-.0562	-.0537	-.0549	-.0370	-.0383	-.0535	-.0726	-.1127	-.1418	-.1734	-.1753	-.1933
120.000						-.0515								-.1220	
130.000						-.0604								-.1012	
140.000						-.0654								-.0827	
150.000						-.0394								-.0701	
160.000						-.0426								-.0759	
170.000						-.0335								-.0898	
180.000	-.0335	-.0371	-.0446	-.0491	-.0530	-.0435	-.0626	-.0678	-.0757	-.0678	-.0985	-.0844	-.0866	-.0748	-.0204

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1584		
70.000							-.2127	-.1686	.0000
80.000							-.2265	-.1975	-.1534
90.000	-.2944	-.2057	-.2072	-.2288	-.2771	.0000	-.2792	-.2063	-.1373
100.000	-.2328	-.1860	-.1808	-.1781	-.2463	-.3259			
110.000	-.1689	-.1211	-.0859	-.1300	-.2338	-.4236			
120.000						-.4817			
130.000						-.2230			
140.000						-.0596			
150.000						.0237			
160.000						.0486			
170.000						.0993			
180.000	-.1589	.0577	.1176	.1579	.2035	.3299			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = .849 ALPHA (6) = 4.393

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1290	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1381	-.2052	-.3408												
70.000	-.0894	.0000	-.3015												
80.000	-.0739	-.1791	-.2935												
90.000			-.3140	-.6389	-.8132	-.5252	-.2530	-.6629	-.19`6	-.1918	-.1682	-.1266	.0000	-.0883	-.1024
100.000						-.9555	-.2962	-.2597	-.2179	-.1700	-.1375	-.1535	-.1102	-.1353	-.0642
110.000						-.7258	-.3396	-.3027	-.2428	-.1894	-.1350	-.1245	.0000	-.1157	-.0765
120.000						-.6233								-.0908	
130.000						-.6193								-.0915	
140.000						-.6832								-.0808	
150.000						-.7223								-.0505	
160.000						-.7359								-.0614	
170.000						-.7365								-.0760	
180.000						-.7356	-.6533	-.5538	-.4358	-.3372	-.2343	-.1351	-.0748	-.0404	-.0232

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5990	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.0819	-.0558	-.0468	-.0302	-.0339	-.0345	-.0362	-.0486	-.0759	-.1275	-.1532	-.2193	-.2849	-.2995	-.2879
100.000	.0000	-.0618	-.0558	-.0451	-.0414	-.0590	-.0586	-.0722	-.0572	-.1364	-.1329	-.1990	-.2501	-.2577	-.2647
110.000	-.0839	.0000	-.0541	-.0493	-.0519	-.0571	-.0592	-.0592	-.0764	-.1003	-.1310	-.1738	-.1862	-.2099	-.2289
120.000						-.0934								-.1482	
130.000						-.0722								-.1212	
140.000						-.0627								-.0938	
150.000						-.0433								-.0806	
160.000						-.0488								-.0895	
170.000						-.0481								-.0858	
180.000	-.0808	-.0886	-.0836	-.0403	-.0483	-.0509	-.0646	-.0816	-.0903	-.0992	-.1108	-.0992	-.0871	-.0834	-.0581

X/L	.7290	.7470	.7870	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1529		
70.000							-.2026	-.1581	.0000
80.000							-.2135	-.1839	-.1240
90.000	-.3665	-.2916	-.2360	-.2310	-.2920	.0000	-.2509	-.2018	-.1327
100.000	-.2841	-.2114	-.1971	-.1975	-.2810	-.3334			
110.000	-.2210	-.1625	-.1294	-.1525	-.2428	-.4156			
120.000						-.4499			
130.000						-.2170			
140.000						-.0815			
150.000						-.0028			
160.000						.0297			
170.000						.0940			
180.000	-.1993	.0250	.0870	.1105	.1662	.3173			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (2) = .848 ALPHA (7) = 6.755

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1616	-.1979	-.2698												
70.000	-.1089	.0000	-.2452												
80.000	-.0944	-.1322	-.2231												
90.000			-.2412	-.5727	-.7389	-.4763	-.2737	-.7026	-.2429	-.2400	-.2182	-.1809	.0000	-.1201	-.1177
100.000						-.4873	-.3049	-.3018	-.2670	-.2264	-.1925	-.1903	-.1387	-.1688	-.1145
110.000						-.6033	-.5588	-.3666	-.3029	-.2344	-.1609	-.1723	.0000	-.1452	-.1046
120.000						-.6113								-.1110	
130.000						-.6035								-.1097	
140.000						-.6847								-.1205	
150.000						-.7086								-.0898	
160.000						-.7331								-.0750	
170.000						-.7302								-.1078	
180.000						-.7253	-.7110	-.6341	-.5380	-.4627	-.3243	-.2309	-.1052	-.0999	-.0442

X/L	.4900	.4680	.4860	.9050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0870	-.0836	-.0705	-.0610	-.0509	-.0589	-.0525	-.0752	-.1034	-.1624	-.2037	-.2942	-.3646	-.3818	-.3646
100.000	.0000	-.0993	-.0793	-.0625	-.0582	-.0750	-.0852	-.0954	-.0995	-.1809	-.1863	-.2692	-.3168	-.3309	-.3392
110.000	-.0892	.0000	-.0722	-.0660	-.0679	-.0814	-.0865	-.0852	-.1043	-.1378	-.1958	-.2328	-.2679	-.2822	-.2826
120.000						-.0726								-.2043	
130.000						-.0863								-.1798	
140.000						-.0819								-.1476	
150.000						-.0497								-.1252	
160.000						-.0486								-.1221	
170.000						-.0904								-.1265	
180.000	-.0865	-.0525	-.0224	-.0389	-.0630	-.0556	-.0786	-.0913	-.1128	-.1178	-.1543	-.1302	-.1291	-.1247	-.0831

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1385		
70.000							-.2102	-.2052	.0000
80.000							-.2344	-.2348	-.1581
90.000	-.4627	-.3421	-.2547	-.2238	-.2297	.0000	-.2373	-.2290	-.1533
100.000	-.3794	-.2871	-.2007	-.1755	-.2206	-.2698			
110.000	-.2666	-.2018	-.1276	-.1362	-.2108	-.3469			
120.000						-.3668			
130.000						-.1756			
140.000						-.1091			
150.000						-.0347			
160.000						.0195			
170.000						.0820			
180.000	-.2851	-.0139	.0369	.0758	.1214	.2722			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (3) = .949 ALPHA (1) = -8.339

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0095	.1250	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0242	- 0468	-.3523												
70.000	.0885	.0000	-.2681												
80.000	.1370	-.0480	-.2901												
90.000			-.3274	-.6400	-.0548	-.8849	-.8741	-.4242	-.7785	-.5259	-.4244	-.3031	.0000	-.1938	-.0731
100.000						-.8880	-.8929	-.8616	-.8257	-.5054	-.4591	-.3874	-.2885	-.1978	-.1023
110.000						-1.0320	-.9574	-.8998	-.7812	-.7154	-.5071	-.3713	.0000	-.2163	-.1548
120.000						-.8162								-.2969	
130.000						-.8120								-.3448	
140.000						-.7879								-.3415	
150.000						-.6770								-.5210	
160.000						-.5293								-.5113	
170.000						-.4749								-.4988	
180.000						-.4576	-.3891	-.3823	-.3945	-.4284	-.3998	-.4172	-.4574	-.4755	-.3740

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0313	.0033	.0792	.1087	.1154	.1290	.1425	.1566	.1515	.1334	.1433	.1113	.0764	.0818	.0834
100.000	.0003	-.0173	.0345	.0706	.0895	.1124	.1076	.1110	.1217	.0931	.1214	.0937	.0823	.0827	.0605
110.000	-.1197	.0000	.0551	.0612	.0772	.1075	.1015	.1078	.1144	.1130	.1222	.1083	.1036	.0972	.0903
120.000						.0155								.1167	
130.000						.0758								.1294	
140.000						.0802								.1355	
150.000						.0971								.1457	
160.000						.0977								.1554	
170.000						.1122								.1476	
180.000	-.3295	.0347	.0472	.0856	-.0901	.1066	.1041	.0975	.0947	.1046	-.0008	.1296	.1332	.1641	.1977

X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1074		
70.000							-.1667	-.1896	.0000
80.000							-.2015	-.2403	-.1839
90.000	.0433	.0917	.0360	-.0145	-.0735	.0000	-.2017	-.2130	-.2394
100.000	.0902	.0791	.0537	.0336	-.0419	-.1111			
110.000	.1096	.1130	.1155	.0737	-.0213	-.2103			
120.000						-.3813			
130.000						-.0843			
140.000						.1940			
150.000						.3001			
160.000						.3011			
170.000						.3275			
180.000	.1083	.2831	.3472	.3909	.4814	.6626			

AMES 60-65 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (3) = .940 ALPHA (2) = -4.081

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1240	.1640	.2030	.2420	.2840	.3020	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
90.000	-.0114	-.0875	-.3599												
70.000	.0439	.0000	-.2783												
80.000	.0726	-.0841	-.2570												
90.000			-.3114	-.6336	-.8703	-.8998	-.8794	-.4930	-.7359	-.6152	-.5013	-.3380	.0000	-.1728	-.0967
100.000						-.8394	-.8944	-.8888	-.8581	-.4502	-.4882	-.3131	-.2625	-.2300	-.1374
110.000						-1.0200	-.9541	-.9199	-.8601	-.7219	-.4894	-.3630	.0000	-.2540	-.1430
120.000						-.8534								-.2337	
130.000						-.9191								-.2867	
140.000						-.8681								-.3908	
150.000						-.8109								-.5538	
160.000						-.7159								-.4944	
170.000						-.6223								-.5083	
180.000						-.6096	-.5059	-.4875	-.4938	-.5093	-.4869	-.5139	-.5111	-.5037	-.2585

X/L	.4300	.4600	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0089	.0187	.0855	.0979	.1041	.1438	.1289	.1250	.1121	.0915	.0940	.0567	.0099	.0111	-.0042
100.000	.0000	-.0105	.0952	.1007	.1185	.1260	.1022	.1042	.1101	.0722	.0980	.0644	.0309	.0276	-.0064
110.000	-.0928	.0000	.0621	.0634	.0341	.1060	.0826	.0818	.0837	.0748	.0811	.0571	.0468	.0405	.0084
120.000						.0709								.0696	
130.000						.0661								.0916	
140.000						.0621								.10	
150.000						.0798								.0	
160.000						.0738								.1041	
170.000						.0758								.1037	
180.000	-.0588	-.0820	.0640	.0827	.0071	.0833	.0699	.0804	.0809	.0588	.0403	.0791	.0869	.1051	.1248

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1433		
70.000							-.1981	-.2863	.0000
80.000							-.2105	-.3310	-.3008
90.000	-.0337	.0212	-.0165	-.0478	-.1113	.0000	-.2209	-.3166	-.2806
100.000	-.0211	.0253	.0169	.0004	-.0469	-.1368			
110.000	.0410	.0589	.0732	.0501	-.0209	-.2129			
120.000						-.3358			
130.000						-.0519			
140.000						.1612			
150.000						.2415			
160.000						.2376			
170.000						.2001			
180.000	.0301	.2219	.2840	.3333	.4156	.5800			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = .948 ALPHA (5) = -1.898

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0389	-.1011	-.3620												
70.000	.0187	.0000	-.2793												
80.000	.0365	-.0933	-.2557												
90.000			-.2845	-.6176	-.8593	-.8781	-.8587	-.5571	-.7357	-.6572	-.5277	-.2564	.0000	-.1405	-.0881
100.000						-.8804	-.8844	-.8796	-.8115	-.6862	-.5078	-.3602	-.2453	-.1864	-.0551
110.000						-.9982	-.9483	-.9172	-.8706	-.5396	-.4920	-.3502	.0000	-.2366	-.0909
120.000						-.8532								-.1699	
130.000						-.9511								-.2422	
140.000						-.9283								-.3140	
150.000						-.8612								-.3071	
160.000						-.7833								-.5467	
170.000						-.6754								-.5342	
180.000						-.6678	-.5594	-.5460	-.5425	-.5454	-.5291	-.5402	-.4770	-.5139	-.0268

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0273	.0945	.0890	.0880	.0959	.1095	.1096	.1054	.0953	.0638	.0489	-.0032	-.0420	-.0469	-.0537
100.000	.0000	.0676	.0645	.0854	.1127	.1014	.0866	.0888	.0969	.0482	.0509	.0126	-.0133	-.0118	-.0488
110.000	-.0332	.0000	.0404	.0882	.0789	.0991	.0838	.0846	.0878	.0642	.0429	.0166	.0152	.0053	-.0279
120.000						.0884								.0406	
130.000						.0618								.0651	
140.000						.0589								.0719	
150.000						.0741								.0794	
160.000						.0646								.0862	
170.000						.0698								.0751	
180.000	.0903	.0054	.0562	.0736	.0463	.0716	.0545	.0545	.0490	.0472	.0334	.0505	.0596	.0866	.1059

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1592		
70.000							-.2114	-.3167	.0000
80.000							-.2303	-.3644	-.3476
90.000	-.0871	-.0003	-.0435	-.0658	-.1227	.0000	-.2405	-.3526	-.3249
100.000	-.0615	-.0110	-.0021	-.0168	-.1045	-.1624			
110.000	.0043	.0381	.0682	.0375	-.0550	-.2381			
120.000						-.3307			
130.000						-.0457			
140.000						.1369			
150.000						.2169			
160.000						.2099			
170.000						.2510			
180.000	-.0032	.1991	.2855	.3018	.3554	.4775			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (3) = .950 ALPHA (4) = .181

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0828	-.1133	-.3588												
70.000	-.0025	.0009	-.2718												
80.000	.0090	-.0991	-.2384												
90.000			-.2753	-.5958	-.8322	-.8326	-.7926	-.5941	-.6750	-.6587	-.4829	-.2943	.0000	-.1078	-.0231
100.000						-.8391	-.8339	-.7995	-.7277	-.6514	-.4304	-.3047	-.1872	-.1683	-.0651
110.000						-.9706	-.9085	-.8741	-.8078	-.5609	-.4740	-.2622	.0000	-.1301	-.0545
120.000						-.8495								-.1834	
130.000						-.9804								-.2005	
140.000						-.9739								-.2756	
150.000						-.9046								-.1194	
160.000						-.8374								-.2145	
170.000						-.7217								-.3342	
180.000						-.7092	-.6068	-.5845	-.5739	-.5820	-.5453	-.5278	-.5058	-.2604	-.0336

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0039	.0615	.0635	.0799	.0819	.0863	.0879	.0805	.0698	.0291	.0102	-.0439	-.0950	-.1104	-.1091
100.000	.0000	.0427	.0598	.0805	.0863	.0825	.0718	.0686	.0674	.0126	.0152	-.0359	-.0724	-.0787	-.1011
110.000	.0152	.0000	.0566	.0639	.0853	.0803	.0704	.0682	.0581	.0428	.0156	-.0186	-.0341	-.0485	-.0693
120.000						.0799								.0062	
130.000						.0613								.0191	
140.000						.0575								.0285	
150.000						.0690								.0388	
160.000						.0637								.0396	
170.000						.0674								.0364	
180.000	.0625	.0465	.0645	.0639	.0615	.0662	.0506	.0400	.0307	.0220	.0251	.0187	.0201	.0386	.0777

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1760		
70.000							-.2222	-.3447	.0000
80.000							-.2488	-.3997	-.3913
90.000	-.1591	-.0584	-.0732	-.0947	-.1364	.0000	-.2560	-.3868	-.3718
100.000	-.1298	-.0448	-.0282	-.0401	-.1234	-.1965			
110.000	-.0383	.0072	.0365	.0119	-.0734	-.2544			
120.000						-.3118			
130.000						-.0502			
140.000						.1152			
150.000						.1840			
160.000						.1670			
170.000						.2173			
180.000	-.0424	.1792	.2255	.2699	.3142	.4062			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8008)

MACH (3) = .950 ALPHA (3) = 2.339

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1078	-.1242	-.3410												
70.000	-.0390	.0000	-.2626												
80.000	-.0152	-.0974	-.2276												
90.000			-.2484	-.5604	-.7951	-.7596	-.7098	-.6336	-.6244	-.5928	-.5309	-.2233	.0000	-.1312	-.0170
100.000						-.7669	-.7568	-.7318	-.6802	-.6486	-.4776	-.2555	-.2708	-.2229	-.0244
110.000						-.9107	-.8307	-.8059	-.7626	-.5909	-.4699	-.3898	.0000	-.1974	.0293
120.000						-.8324								-.2347	
130.000						-.9920								-.1830	
140.000						-1.0060								-.2887	
150.000						-.9357								-.1159	
160.000						-.8745								-.3324	
170.000						-.7565								-.1298	
180.000						-.7507	-.6340	-.6167	-.5953	-.5871	-.5445	-.5297	-.4408	-.1015	-.0145

X/L	.4300	.4480	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0107	.0318	.0374	.0568	.0760	.0741	.0759	.0691	.0536	.0037	-.0185	-.0791	-.1379	-.1671	-.1574
100.000	.0000	.0150	.0281	.0683	.0794	.0677	.0689	.0602	.0479	-.0076	-.0092	-.0643	-.1053	-.1196	-.1491
110.000	.0439	.0000	.0513	.0774	.0681	.0651	.0610	.0612	.0413	.0152	-.0112	-.0464	-.0700	-.0954	-.1080
120.000						.0705								-.0315	
130.000						.0510								-.0074	
140.000						.0602								.0026	
150.000						.0660								.0063	
160.000						.0560								.0119	
170.000						.0594								.0010	
180.000	.0546	.0378	.0576	.0534	.0677	.0672	.0469	.0383	.0204	.0049	.0071	.0085	.0022	.0061	.0614

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1872		
70.000							-.2359	-.3563	.0000
80.000							-.2624	-.4085	-.4206
90.000	-.2186	-.1193	-.1127	-.1247	-.1705	.0000	-.2718	-.4032	-.4017
100.000	-.1773	-.0986	-.0616	-.0883	-.1510	-.2207			
110.000	-.0821	-.0245	.0093	-.0171	-.1000	-.2741			
120.000						-.2819			
130.000						-.0626			
140.000						.1037			
150.000						.1565			
160.000						.1507			
170.000						.2163			
180.000	-.0801	.1611	.1998	.2325	.2805	.3569			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (3) = .950 ALPHA (6) = 4.484

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1381	-.1573	-.3267												
70.000	-.0714	.0000	-.2529												
80.000	-.0593	-.1189	-.2218												
90.000			-.2321	-.5338	-.6903	-.7378	-.7152	-.6756	-.5760	-.5558	-.5339	-.4437	.0000	-.1493	-.0571
100.000						-.7315	-.7625	-.7363	-.6490	-.5841	-.4845	-.2349	-.2268	-.1120	-.0481
110.000						-.8209	-.8000	-.8067	-.7650	-.6494	-.4097	-.3347	.0000	-.1600	-.0563
120.000						-.8044								-.1654	
130.000						-.9986								-.1726	
140.000						-1.0370								-.1457	
150.000						-.9674								-.1272	
160.000						-.9120								-.1089	
170.000						-.7824								-.1124	
180.000						-.7799	-.6717	-.6467	-.6358	-.6064	-.5544	-.4443	-.2746	-.1304	-.0304

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0121	.0220	.0210	.0406	.0562	.0449	.0629	.0527	.0297	-.0156	-.0509	-.1231	-.1923	-.2214	-.2210
100.000	.0000	.0049	.0283	.0412	.0459	.0414	.0458	.0386	.0345	-.0234	-.0419	-.1091	-.1565	-.1762	-.2033
110.000	-.0159	.0000	.0253	.0527	.0552	.0416	.0428	.0424	.0277	.0040	-.0407	-.0887	-.1164	-.1419	-.1603
120.000						.0411								-.0694	
130.000						.0439								-.0430	
140.000						.0541								-.0375	
150.000						.0657								-.0269	
160.000						.0677								-.0202	
170.000						.0663								-.0271	
180.000	-.0413	.0216	.0390	.0586	.0538	.0607	.0510	.0307	.0166	.0036	-.0202	-.0261	-.0283	-.0293	.0247

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2104		
70.000							-.2658	-.3814	.0000
80.000							-.2915	-.4399	-.4444
90.000	-.2878	-.1920	-.1772	-.1585	-.1963	.0000	-.2999	-.4438	-.4282
100.000	-.2489	-.1449	-.1110	-.0997	-.1727	-.2679			
110.000	-.1334	-.0724	-.0245	-.0409	-.1377	-.3239			
120.000						-.2933			
130.000						-.0669			
140.000						.0481			
150.000						.1313			
160.000						.1327			
170.000						.2132			
180.000	-.1307	.1208	.1742	.2166	.2308	.3180			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (3) = .950 ALPHA (7) = 8.777

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2106	-.1506	-.2277												
70.000	-.1468	.0000	-.1679												
80.000	-.1450	-.0945	-.1383												
90.000			-.1543	-.4297	-.6953	-.7082	-.6072	-.6976	-.4743	-.3070	-.4781	-.4337	.0000	-.2776	-.0693
100.000						-.7091	-.7016	-.6055	-.5272	-.5177	-.4845	-.4350	-.3087	-.2126	-.0838
110.000						-.7991	-.7726	-.7076	-.6274	-.5664	-.4381	-.3661	.0000	-.1454	-.0639
120.000						-.7945								-.2237	
130.000						-.9928								-.2032	
140.000						-1.0920								-.1737	
150.000						-1.0170								-.1522	
160.000						-.9463								-.1199	
170.000						-.8095								-.1059	
180.000						-.8151	-.6955	-.6770	-.6528	-.5768	-.4106	-.2447	-.1661	-.1500	-.0625

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0310	-.0125	.0087	.0277	.0432	.0230	.0345	.0182	-.0079	-.0614	-.0991	-.1790	-.2486	-.2824	-.2997
100.000	.0000	-.0168	-.0091	.0150	.0341	.0192	.0208	.0052	-.0057	-.0767	-.0865	-.1567	-.2163	-.2342	-.2890
110.000	-.0375	.0000	.0168	.0119	.0347	.0150	.0158	.0070	-.0117	-.0391	-.0863	-.1390	-.1735	-.2026	-.2396
120.000						.0307								-.1290	
130.000						.0227								-.1113	
140.000						.0403								-.0908	
150.000						.0663								-.0767	
160.000						.0689								-.0694	
170.000						.0713								-.0832	
180.000	-.0052	.0271	.0565	.0503	.0428	.0653	.0407	.0194	.0017	-.0176	-.0493	-.0564	-.0771	-.0777	-.0350

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2625		
70.000							-.3184	-.4092	.0000
80.000							-.3418	-.4678	-.4739
90.000	-.3690	-.2913	-.2779	-.2471	-.2662	.0000	-.3470	-.4865	-.4579
100.000	-.3429	-.2415	-.1983	-.1590	-.2318	-.3330			
110.000	-.2133	-.1420	-.0829	-.0893	-.1822	-.3764			
120.000						-.3129			
130.000						-.1112			
140.000						.0103			
150.000						.0991			
160.000						.1415			
170.000						.2261			
180.000	-.2138	.0593	.1237	.1805	.2431	.3906			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.048 ALPHA (1) = -8.311

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1695	.1114	-.1689												
70.000	.2282	.0000	-.0885												
80.000	.2740	.1038	-.0762												
90.000			-.1403	-.4364	-.6350	-.6653	-.6612	-.2771	-.6310	-.4843	-.3211	-.2507	.0000	-.1822	-.1768
100.000						-.6645	-.6838	-.6610	-.6440	-.5400	-.3688	-.2803	-.2222	-.2207	-.1820
110.000						-.7382	-.7425	-.6986	-.6112	-.5545	-.4064	-.3421	.0000	-.2641	-.2367
120.000						-.6830								-.4295	
130.000						-.6055								-.3699	
140.000						-.5689								-.3714	
150.000						-.4884								-.3530	
160.000						-.3790								-.3380	
170.000						-.3291								-.3165	
180.000						-.3079	-.2407	-.2321	-.2461	-.2719	-.2569	-.2663	-.2828	-.2839	-.2817

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1535	-.1531	-.1409	-.1162	-.1160	.0081	.0641	.1072	.1377	.1527	.1657	.1545	.1373	.1410	.1627
100.000	.0000	-.1657	-.1583	-.1273	-.0871	-.0116	.0242	.0749	.1113	.1212	.1395	.1384	.1330	.1417	.1455
110.000	-.2259	.0000	-.2059	-.1798	-.1294	-.0321	-.0003	.0515	.0907	.1212	.1287	.1363	.1464	.1488	.1659
120.000						-.0421								.1768	
130.000						-.1449								.1807	
140.000						-.1464								.1829	
150.000						-.1107								.1877	
160.000						-.1075								.1952	
170.000						-.0938								.1892	
180.000	-.2848	-.2372	-.2048	-.1725	-.1320	-.0846	-.1015	-.0867	.0406	.1150	.0788	.1488	.1727	.1978	.2593

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0154		
70.000							-.0400	-.1121	.0000
80.000							-.0634	-.1548	-.1310
90.000	.1427	.2084	.1518	.1157	.0697	.0000	-.0713	-.1303	-.1555
100.000	.1466	.1734	.1650	.1543	.0968	.0219			
110.000	.1898	.2146	.2186	.1916	.0817	-.0782			
120.000						-.2297			
130.000						.0540			
140.000						.3136			
150.000						.4156			
160.000						.3956			
170.000						.4240			
180.000	.1886	.3767	.4435	.4994	.5563	.7101			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.053 ALPHA (2) = -6.203

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1557	.0983	-.1759												
70.000	.2129	.0000	-.0917												
80.000	.2529	.0933	-.0765												
90.000			-.1281	-.4261	-.6380	-.6684	-.6614	-.2898	-.6291	-.5129	-.3373	-.2656	.0000	-.1888	-.1679
100.000						-.6687	-.6802	-.6662	-.6562	-.5631	-.3755	-.2863	-.2325	-.2242	-.1827
110.000						-.7883	-.7343	-.7001	-.6429	-.5662	-.3880	-.3224	.0000	-.2575	-.2233
120.000						-.6211								-.3841	
130.000						-.6522								-.3741	
140.000						-.6152								-.3909	
150.000						-.5462								-.3728	
160.000						-.4637								-.3615	
170.000						-.3950								-.3449	
180.000						-.3725	-.2888	-.2715	-.2874	-.3059	-.2901	-.2979	-.3095	-.3165	-.3173

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1482	-.1414	-.1335	-.1155	-.1083	.0178	.0655	.1105	.1347	.1371	.1448	.1288	.1144	.1092	.1280
100.000	.0000	-.1606	-.1495	-.1296	-.0811	-.0094	.0350	.0862	.1077	.1082	.1298	.1231	.1213	.1259	.1288
110.000	-.2000	.0000	-.1802	-.1693	-.1166	-.0283	.0025	.0535	.0786	.0968	.1087	.1100	.1146	.1192	.1341
120.000						-.0312								.1550	
130.000						-.1151								.1638	
140.000						-.1235								.1648	
150.000						-.0998								.1683	
160.000						-.1069								.1738	
170.000						-.0972								.1646	
180.000	-.2982	-.2495	-.2046	-.1661	-.1207	-.0912	-.0927	-.0635	.0433	.0903	.0989	.1348	.1475	.1720	.2311

X/L	.7790	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0102		
70.000							-.0398	-.1324	.0000
80.000							-.0606	-.1726	-.1573
90.000	.1079	.1779	.1279	.0965	.0540	.0000	-.0741	-.1578	-.1534
100.000	.1161	.1587	.1528	.1348	.0772	.0116			
110.000	.1588	.1948	.2044	.1770	.0788	-.0807			
120.000						-.2077			
130.000						.0802			
140.000						.3088			
150.000						.4025			
160.000						.3775			
170.000						.4051			
180.000	.1589	.3507	.4122	.4681	.5265	.6642			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (RE8008)

MACH (4) = 1.052 ALPHA (3) = -4.090

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1340	.0818	-.1814												
70.000	.1921	.0000	-.0975												
80.000	.2216	.0768	-.0741												
90.000			-.1227	-.4215	-.6409	-.6699	-.6676	-.3455	-.6179	-.5068	-.3520	-.2651	.0000	-.1935	-.1726
100.000						-.6709	-.6832	-.6782	-.6667	-.5875	-.3555	-.2820	-.2323	-.2319	-.1872
110.000						-.7819	-.7369	-.7114	-.6680	-.5828	-.3670	-.2901	.0000	-.2380	-.2068
120.000						-.6363								-.3175	
130.000						-.6916								-.3487	
140.000						-.6684								-.4097	
150.000						-.6048								-.3953	
160.000						-.5387								-.3863	
170.000						-.4573								-.3757	
180.000						-.4350	-.3489	-.3232	-.3296	-.3415	-.3240	-.3321	-.3461	-.3519	-.3328

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1513	-.1445	-.1304	-.1038	-.0966	.0281	.0708	.1033	.1181	.1116	.1170	.0866	.0586	.0520	.0707
100.000	.0000	-.1689	-.1531	-.1225	-.0701	-.0001	.0382	.0738	.1022	.0929	.1126	.0883	.0744	.0746	.0771
110.000	-.1822	.0000	-.1585	-.1433	-.0957	-.0191	.0116	.0499	.0788	.0807	.0825	.0762	.0822	.0818	.0874
120.000						-.0239								.1226	
130.000						-.0839								.1348	
140.000						-.1018								.1387	
150.000						-.0839								.1396	
160.000						-.0934								.1439	
170.000						-.0893								.1374	
180.000	-.2648	-.2569	-.1955	-.1655	-.1060	-.0841	-.0977	-.0181	.0549	.0716	.0875	.0983	.1122	.1396	.1955

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0047		
70.000							-.0494	-.1528	.0000
80.000							-.0720	-.1986	-.1887
90.000	.0459	.1332	.0985	.0744	.0311	.0000	-.0862	-.1892	-.1767
100.000	.0968	.1259	.1319	.1166	.0534	-.0108			
110.000	.1225	.1661	.1866	.1635	.0720	-.0671			
120.000						-.1846			
130.000						.0923			
140.000						.2900			
150.000						.3709			
160.000						.3424			
170.000						.3770			
180.000	.1230	.3193	.3774	.4274	.4902	.5948			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.052 ALPHA (4) = -1.930

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1079	.0636	-.1865												
70.000	.1653	.0000	-.1026												
80.000	.1855	.0865	-.0798												
90.000			-.1166	-.4101	-.6383	-.6663	-.6618	-.3868	-.5484	-.4920	-.3902	-.2810	.0000	-.1936	-.1707
100.000						-.6663	-.6782	-.6682	-.6329	-.5206	-.3616	-.2902	-.2235	-.2246	-.1794
110.000						-.7702	-.7317	-.7068	-.6751	-.5613	-.3693	-.2645	.0000	-.2326	-.1942
120.000						-.6379								-.2726	
130.000						-.7266								-.3125	
140.000						-.7093								-.3940	
150.000						-.6479								-.4041	
160.000						-.5912								-.4043	
170.000						-.5006								-.3938	
180.000						-.4853	-.3921	-.3681	-.3679	-.3823	-.3637	-.3615	-.3702	-.3709	-.3085

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1460	-.1423	-.1225	-.0862	-.0703	.0352	.0762	.0925	.1047	.0921	.0833	.0461	.0090	-.0073	-.0029
100.000	.0000	-.1589	-.1356	-.0994	-.0387	.0176	.0592	.0769	.0993	.0866	.0879	.0605	.0323	.0222	.0205
110.000	-.1737	.0000	-.1340	-.1105	-.0889	.0016	.0229	.0569	.0801	.0849	.0783	.0609	.0549	.0405	.0408
120.000						-.0121								.0824	
130.000						-.0544								.0933	
140.000						-.0628								.1024	
150.000						-.0550								.1009	
160.000						-.0660								.1052	
170.000						-.0649								.0985	
180.000	-.2039	-.2138	-.1584	-.1282	-.0920	-.0539	-.0802	.0057	.0495	.0625	.0844	.0770	.0846	.0987	.1623

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0182		
70.000							-.0666	-.1692	.0000
80.000							-.0880	-.2163	-.2195
90.000	-.0916	.0579	.0411	.0354	-.0002	.0000	-.1061	-.2130	-.2073
100.000	-.0004	.0616	.0784	.0744	.0130	-.0449			
110.000	.0780	.1161	.1541	.1364	.0401	-.1041			
120.000						-.1793			
130.000						.1002			
140.000						.2709			
150.000						.3372			
160.000						.3037			
170.000						.3457			
180.000	.0755	.2812	.3395	.3649	.4209	.5115			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.055 ALPHA (5) = .244

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0787	.0340	-.1740												
70.000	.1390	.0000	-.0878												
80.000	.1488	.0712	-.0610												
90.000			-.0865	-.3808	-.6114	-.6298	-.6053	-.4492	-.4933	-.5052	-.4253	-.3169	.0000	-.1905	-.1746
100.000						-.6328	-.6453	-.6145	-.5528	-.5094	-.4033	-.3079	-.2233	-.2156	-.1691
110.000						-.7374	-.7036	-.6768	-.6275	-.5151	-.4077	-.2783	.0000	-.2204	-.1737
120.000						-.6254								-.2460	
130.000						-.7393								-.2395	
140.000						-.7338								-.3214	
150.000						-.6740								-.3542	
160.000						-.6233								-.3683	
170.000						-.5315								-.3624	
180.000						-.5158	-.4316	-.4107	-.4063	-.4113	-.3878	-.3729	-.3507	-.3376	-.2630

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1228	-.1139	-.0868	-.0599	-.0404	.0500	.0903	.1066	.1099	.0944	.0675	.0203	-.0345	-.0671	-.0643
100.000	.0000	-.1288	-.0999	-.0638	-.0069	.0390	.0715	.0917	.1088	.0772	.0718	.0253	-.0171	-.0332	-.0500
110.000	-.1505	.0000	-.0978	-.0724	-.0253	.0333	.0648	.0866	.0992	.0959	.0696	.0386	.0151	-.0070	-.0141
120.000						.0418								.0448	
130.000						.0069								.0576	
140.000						-.0063								.0596	
150.000						.0025								.0600	
160.000						-.0076								.0685	
170.000						-.0104								.0614	
180.000	-.2146	-.1697	-.1314	-.1118	-.0033	-.0185	.0062	.0539	.0706	.0741	.0489	.0585	.0520	.0648	.1306

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0509		
70.000							-.0938	-.1902	.0000
80.000							-.1204	-.2436	-.2391
90.000	-.0990	-.0057	-.0173	-.0089	-.0273	.0000	-.1340	-.2456	-.2584
100.000	-.0871	.0169	.0355	.0465	-.0128	-.0901			
110.000	.0250	.0787	.1116	.1041	.0099	-.1301			
120.000						-.1852			
130.000						.0995			
140.000						.2396			
150.000						.2939			
160.000						.2609			
170.000						.3037			
180.000	.0834	.2801	.3121	.3523	.3756	.4288			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.031 ALPHA (6) = 2.287

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0265	.0087	-.1930												
70.000	.0829	.0000	-.1085												
80.000	.0935	.0330	-.0732												
90.000			-.0909	-.3802	-.6113	-.6122	-.5497	-.4715	-.4744	-.4960	-.4462	-.3465	.0000	-.2258	-.1890
100.000						-.6015	-.6214	-.5497	-.5114	-.5066	-.4332	-.3350	-.2432	-.2537	-.1990
110.000						-.7353	-.6904	-.6354	-.5796	-.5256	-.4073	-.2847	.0000	-.2378	-.1792
120.000						-.6407								-.2465	
130.000						-.7723								-.2631	
140.000						-.7883								-.2932	
150.000						-.7197								-.3128	
160.000						-.6792								-.3088	
170.000						-.5927								-.3167	
180.000						-.5752	-.4788	-.4512	-.4429	-.4443	-.4134	-.3877	-.3239	-.3082	-.2298

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1842	-.1167	-.0523	-.0033	-.0076	.0676	.0930	.0985	.1004	.0741	.0459	- 0019	-.0704	-.1007	-.1159
100.000	.0000	-.1848	-.0809	-.0168	.0330	.0544	.0789	.0882	.1011	.0678	.0572	.0085	-.0416	-.0659	-.1027
110.000	-.1499	.0000	-.0539	-.0151	.0263	.0540	.0893	.0852	.0889	.0772	.0533	.0124	-.0182	-.0438	-.0709
120.000						.0377								.0144	
130.000						.0400								.0362	
140.000						.0361								.0398	
150.000						.0509								.0438	
160.000						.0419								.0451	
170.000						.0415								.0412	
180.000	-.1883	-.1498	-.1104	-.0892	-.0168	.0213	.0495	.0809	.0724	.0641	.0631	.0464	.0364	.0405	.0938

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0764		
70.000							-.1266	-.2182	.0000
80.000							-.1468	-.2700	-.2684
90.000	-.1721	-.0710	-.0835	-.0866	-.0844	.0000	-.1648	-.2620	-.2535
100.000	-.1817	-.0817	-.0250	-.0028	-.0652	-.1443			
110.000	-.0369	.0245	.0700	.0545	-.0353	-.1827			
120.000						-.1540			
130.000						.0666			
140.000						.2161			
150.000						.2546			
160.000						.2254			
170.000						.2015			
180.000	-.0386	.2153	.2700	.3075	.3285	.3671			

AMES 66-65G PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.045 ALPHA (7) = 4.493

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0278	-.0804	-.2363												
70.000	.0200	.0000	-.1483												
80.000	.0262	-.0082	-.1032												
90.000			-.0978	-.3787	-.5807	-.5516	-.5168	-.5285	-.4771	-.4590	-.4334	-.4008	.0000	-.2671	-.1951
100.000						-.5668	-.5634	-.5407	-.5201	-.4983	-.4488	-.3779	-.2862	-.2901	-.2079
110.000						-.7098	-.6374	-.5993	-.5765	-.5526	-.4319	-.3183	.0000	-.2693	-.2003
120.000						-.6495								-.2489	
130.000						-.7992								-.2526	
140.000						-.8358								-.2769	
150.000						-.7732								-.2734	
160.000						-.7320								-.2708	
170.000						-.6491								-.2706	
180.000						-.6291	-.5378	-.5103	-.4875	-.4891	-.4432	-.3976	-.3070	-.2604	-.1719

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1411	-.1094	-.0375	.0153	.0094	.0622	.0958	.1012	.0897	.0391	.0127	-.0466	-.1124	-.1491	-.1704
100.000	.0000	-.1209	-.0560	-.0086	.0463	.0559	.0819	.0878	.0841	.0305	.0214	-.0323	-.0812	-.1090	-.1542
110.000	-.1309	.0000	-.0439	.0000	.0372	.0540	.0791	.0819	.0696	.0497	.0196	-.0203	-.0474	-.0829	-.1110
120.000						.0443								-.0188	
130.000						.0607								.0079	
140.000						.0558								.0136	
150.000						.0662								.0149	
160.000						.0625								.0190	
170.000						.0638								.0110	
180.000	-.1319	-.1080	-.0427	-.0306	.0015	.0558	.0648	.0666	.0586	.0475	.0330	.0278	.0166	.0166	.0627

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1086		
70.000							-.1646	-.2551	.0000
80.000							-.1866	-.3159	-.3136
90.000	-.2279	-.1242	-.1350	-.1153	-.1420	.0000	-.2077	-.3322	-.2954
100.000	-.2140	-.0821	-.0644	-.0447	-.1114	-.2145			
110.000	-.0883	-.0130	.0446	.0128	-.0940	-.2430			
120.000						-.1601			
130.000						.0809			
140.000						.1448			
150.000						.2227			
160.000						.2071			
170.000						.2780			
180.000	-.0847	.1784	.2319	.2634	.2894	.3059			

AMES 04-03D PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (4) = 1.040 ALPHA (0) = 0.095

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1200	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.1162	-.1379	-.1402												
70.000	-.0810	.0000	-.1487												
80.000	-.0802	-.0435	-.0850												
90.000			-.0685	-.3221	-.4713	-.5189	-.4844	-.5797	-.3814	-.3941	-.3858	-.3868	.0000	-.3421	-.2873
100.000						-.5248	-.5470	-.4990	-.4423	-.4158	-.4043	-.4448	-.3681	-.3582	-.2482
110.000						-.5681	-.5828	-.5870	-.5324	-.5048	-.4158	-.4108	.0000	-.3038	-.2292
120.000						-.5904								-.2373	
130.000						-.6126								-.2408	
140.000						-.6924								-.1979	
150.000						-.6278								-.1825	
160.000						-.7065								-.1936	
170.000						-.7034								-.1901	
180.000						-.6961	-.5897	-.5674	-.5455	-.4877	-.4002	-.3377	-.2210	-.1842	-.0962

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1810	-.1530	-.0190	.0274	.0432	.0642	.0810	.0793	.0624	.0169	-.0178	-.0814	-.1552	-.1835	-.2244
100.000	.0000	-.1316	-.0444	.0304	.0503	.0490	.0585	.0815	.0846	.0009	-.0105	-.0747	-.1231	-.1437	-.2180
110.000	-.1634	.0000	-.0186	.0253	.0451	.0451	.0554	.0596	.0535	.0279	-.0128	-.0627	-.0872	-.1218	-.1754
120.000						.0453								-.0460	
130.000						.0583								-.0340	
140.000						.0657								-.0208	
150.000						.0654								-.0092	
160.000						.0656								-.0008	
170.000						.0878								-.0150	
180.000	-.0790	-.0477	-.0481	.0082	.0251	.0802	.0772	.0774	.0721	.0615	.0184	.0184	.0047	-.0128	.0082

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1578		
70.000							-.2108	-.2091	.0000
80.000							-.2311	-.3365	-.3613
90.000	-.2751	-.2144	-.2011	-.1650	-.1487	.0000	-.2428	-.3674	-.3365
100.000	-.2888	-.1709	-.1078	-.0708	-.1380	-.2499			
110.000	-.1999	-.0800	.0196	.0062	-.0943	-.2731			
120.000						-.1529			
130.000						.0494			
140.000						.1067			
150.000						.2147			
160.000						.2509			
170.000						.3517			
180.000	-.1962	.1220	.1981	.2934	.3155	.4354			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB908)

MACH (3) = 1.000 ALPHA (1) = -8.333

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1200	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.2384	.1814	-.0065												
70.000	.2931	.0000	-.0110												
60.000	.3396	.1774	.0013												
90.000			-.0591	-.3478	-.5433	-.5723	-.5690	-.1900	-.5440	-.4250	-.2534	-.1838	.0000	-.1149	-.1142
100.000						-.5721	-.3911	-.5716	-.5554	-.4654	-.3079	-.2137	-.1561	-.1520	-.1212
110.000						-.7054	-.6505	-.6079	-.5249	-.4656	-.3050	-.2828	.0000	-.1998	-.1763
120.000						-.5144								-.3588	
130.000						-.5161								-.2477	
140.000						-.4770								-.2954	
150.000						-.4036								-.2749	
160.000						-.3030								-.2600	
170.000						-.2523								-.2439	
180.000						-.2308	-.1619	-.1518	-.1655	-.1920	-.1774	-.1892	-.2034	-.2139	-.2047

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0808	-.0810	-.0874	-.0850	-.0866	.0013	.0790	.1338	.1606	.1800	.1986	.1935	.1840	.1944	.2155
100.000	.0000	-.1059	-.1014	-.0929	-.0719	-.0200	.0381	.0942	.1290	.1459	.1759	.1784	.1805	.1932	.1991
110.000	-.1662	.0000	-.1529	-.1417	-.1086	-.0355	.0054	.0649	.1088	.1414	.1656	.1757	.1908	.1986	.2185
120.000						-.0056								.2283	
130.000						-.1128								.2343	
140.000						-.1013								.2365	
150.000						-.0624								.2401	
160.000						-.0590								.2462	
170.000						-.0455								.2408	
180.000	-.2105	-.1794	-.1471	-.1235	-.0492	-.0347	-.0570	-.0568	-.0260	.0516	.1162	.1952	.2184	.2462	.3105

X/L	.7280	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9450
PHI									
80.000							.0873		
70.000							.0347	-.0395	.0000
60.000							.0105	-.0802	-.0804
90.000	.2039	.2878	.2143	.1765	.1331	.0000	.0020	-.0596	-.0877
100.000	.2048	.2319	.2192	.2116	.1626	.0904			
110.000	.2445	.2726	.2751	.2494	.1473	-.0091			
120.000						-.1508			
130.000						.1244			
140.000						.3772			
150.000						.4734			
160.000						.4534			
170.000						.4017			
180.000	.2484	.4304	.4937	.5499	.6067	.7338			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = 1.100 ALPHA (2) = -6.211

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2259	.1716	-.0934												
70.000	.2835	.0000	-.0103												
80.000	.3175	.1647	.0042												
90.000			-.0496	-.3392	-.5450	-.5745	-.5760	-.2161	-.5521	-.4545	-.2770	-.1999	.0000	-.1299	-.1102
100.000						-.5769	-.5926	-.5829	-.5749	-.4930	-.3169	-.2217	-.1679	-.1617	-.1256
110.000						-.6931	-.6464	-.6186	-.5618	-.4859	-.3143	-.2681	.0000	-.1966	-.1626
120.000						-.5257								-.3347	
130.000						-.5566								-.3113	
140.000						-.5229								-.3115	
150.000						-.4585								-.2951	
160.000						-.3773								-.2843	
170.000						-.3160								-.2692	
180.000						-.2908	-.2165	-.2001	-.2098	-.2285	-.2124	-.2196	-.2338	-.2387	-.2387

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0870	-.0875	-.0843	-.0825	-.0820	.0272	.0892	.1363	.1627	.1764	.1882	.1736	.1567	.1590	.1849
100.000	.0000	-.1045	-.0994	-.0897	-.0600	-.0019	.0588	.1069	.1418	.1494	.1734	.1684	.1633	.1745	.1849
110.000	-.1451	.0000	-.1327	-.1286	-.0980	-.0190	.0163	.0741	.1114	.1377	.1504	.1489	.1588	.1673	.1903
120.000						-.0152								.2075	
130.000						-.0917								.2136	
140.000						-.0859								.2158	
150.000						-.0556								.2210	
160.000						-.0585								.2246	
170.000						-.0505								.2183	
180.000	-.2300	-.1937	-.1615	-.1262	-.0884	-.0458	-.0505	-.0589	-.0050	.0903	.1403	.1747	.1961	.2235	.2877

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0743		
70.000							.0261	-.0619	.0000
80.000							.0072	-.1003	-.0886
90.000	.1698	.2338	.1923	.1622	.1180	.0000	-.0046	-.0859	-.0880
100.000	.1779	.2199	.2143	.1982	.1403	.0717			
110.000	.2192	.2537	.2622	.2365	.1353	-.0186			
120.000						-.1401			
130.000						.1412			
140.000						.3613			
150.000						.4521			
160.000						.4246			
170.000						.4563			
180.000	.2202	.4067	.4683	.5230	.5752	.6901			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = 1.098 ALPHA (3) = -4.021

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1974	.1512	-.1013												
70.000	.2533	.0000	-.0189												
80.000	.2857	.1505	.0034												
90.000			-.0444	-.3362	-.5494	-.5808	-.5869	-.2695	-.5458	-.4474	-.2995	-.2123	.0000	-.1361	-.1114
100.000						-.5808	-.6009	-.5955	-.5862	-.5059	-.3092	-.2280	-.1704	-.1700	-.1260
110.000						-.6879	-.6524	-.6299	-.5891	-.5106	-.3140	-.2428	.0000	-.1810	-.1448
120.000						-.5430								-.2709	
130.000						-.5982								-.2954	
140.000						-.5737								-.3320	
150.000						-.5121								-.3188	
160.000						-.4483								-.3098	
170.000						-.3744								-.2985	
180.000						-.3521	-.2750	-.2533	-.2604	-.2720	-.2536	-.2590	-.2680	-.2732	-.2613

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0913	-.0900	-.0817	-.0702	-.0702	.0396	.0916	.1320	.1523	.1562	.1539	.1320	.1064	.1017	.1179
100.000	.0000	-.1161	-.1069	-.0878	-.0541	.0075	.0566	.1015	.1364	.1317	.1488	.1331	.1208	.1232	.1287
110.000	-.1318	.0000	-.1123	-.1033	-.0738	-.0078	.0234	.0710	.1015	.1183	.1250	.1167	.1268	.1262	.1410
120.000						-.0136								.1658	
130.000						-.0721								.1780	
140.000						-.0763								.1824	
150.000						-.0517								.1838	
160.000						-.0560								.1860	
170.000						-.0504								.1833	
180.000	-.2336	-.2020	-.1507	-.1181	-.0819	-.0436	-.0544	-.0427	.0189	.0833	.1289	.1391	.1569	.1827	.2508

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0561		
70.000							.0143	-.0867	.0000
80.000							-.0085	-.1311	-.1245
90.000	.1011	.1841	.1544	.1372	.0985	.0000	-.0220	-.1217	-.1157
100.000	.1144	.1815	.1895	.1796	.1190	.0516			
110.000	.1764	.2207	.2457	.2252	.1256	-.0216			
120.000						-.1178			
130.000						.1520			
140.000						.3455			
150.000						.4247			
160.000						.3917			
170.000						.4268			
180.000	.1754	.3722	.4342	.4799	.5232	.6192			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = 1.101 ALPHA (4) = -1.929

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1779	.1354	-.1043												
70.000	.2321	.0000	-.0201												
80.000	.2528	.1399	.0055												
90.000			-.0280	-.3232	-.5430	-.5702	-.5783	-.3195	-.4920	-.4323	-.3281	-.2276	.0000	-.1377	-.1100
100.000						-.5751	-.5932	-.5897	-.5647	-.4705	-.3080	-.2330	-.1693	-.1700	-.1190
110.000						-.6740	-.6417	-.6242	-.5975	-.5062	-.3018	-.2242	.0000	-.1707	-.1328
120.000						-.5467								-.2210	
130.000						-.6288								-.2393	
140.000						-.6128								-.3255	
150.000						-.5542								-.3264	
160.000						-.5027								-.3278	
170.000						-.4213								-.3161	
180.000						-.3995	-.3180	-.2949	-.2947	-.3029	-.2822	-.2820	-.2906	-.2926	-.2537

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0845	-.0829	-.0727	-.0574	-.0370	.0710	.1170	.1480	.1593	.1517	.1420	.1059	.0628	.0461	.0557
100.000	.0000	-.1005	-.0869	-.0641	-.0183	.0486	.0909	.1319	.1514	.1400	.1453	.1129	.0844	.0767	.0732
110.000	-.1147	.0000	-.0874	-.0740	-.0364	.0380	.0589	.1053	.1287	.1368	.1312	.1125	.1028	.0945	.0993
120.000						.0355								.1287	
130.000						-.0206								.1449	
140.000						-.0299								.1476	
150.000						-.0154								.1483	
160.000						-.0203								.1496	
170.000						-.0196								.1460	
180.000	-.2194	-.1731	-.1201	-.0878	-.0418	-.0177	-.0323	.0188	.0799	.1167	.1307	.1255	.1289	.1472	2154

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0425		
70.000							-.0022	-.0969	.0000
80.000							-.0249	-.1466	-.1422
90.000	.0294	.1121	.1011	.0962	.0633	.0000	-.0418	-.1434	-.1345
100.000	.0346	.1220	.1249	.1398	.0799	.0153			
110.000	.1294	.1794	.2144	.1969	.1006	-.0413			
120.000						-.1159			
130.000						.1583			
140.000						.3231			
150.000						.3882			
160.000						.3564			
170.000						.3971			
180.000	.1305	.3415	.3965	.4385	.4707	.5539			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = 1.100 ALPHA (5) = .179

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1275	.0366	-.1174												
70.000	.1844	.0000	-.0327												
80.000	.1965	.1165	-.0034												
90.000			-.0198	-.3135	-.5439	-.5675	-.5570	-.3726	-.[illegible]30	-.4465	-.3944	-.2862	.0000	-.1715	-.1598
100.000						-.5660	-.5857	-.5689	-.5081	-.4547	-.3700	-.2804	-.2038	-.1999	-.1515
110.000						-.6661	-.6365	-.6174	-.5831	-.4801	-.3450	-.2608	.0000	-.2004	-.1534
120.000						-.5577								-.2266	
130.000						-.6656								-.2367	
140.000						-.6647								-.3043	
150.000						-.6070								-.3309	
160.000						-.5656								-.3395	
170.000						-.4870								-.3352	
180.000						-.4649	-.3771	-.3512	-.3448	-.3502	-.3269	-.3248	-.3150	-.3064	-.2566

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1210	-.1164	-.1035	-.0954	-.0787	.0234	.0980	.1309	.1363	.1344	.1185	.0832	.0380	.0161	.0145
100.000	.0000	-.1282	-.1110	-.0974	-.0559	.0060	.0751	.1176	.1326	.1194	.1263	.0839	.0591	.0452	.0280
110.000	-.1417	.0000	-.1072	-.0977	-.0648	-.0035	.0535	.0985	.1135	.1299	.1225	.1012	.0856	.0751	.0663
120.000						.0115								.1207	
130.000						-.0433								.1322	
140.000						-.0561								.1365	
150.000						-.0353								.1367	
160.000						-.0449								.1417	
170.000						-.0371								.1347	
180.000	-.2121	-.1728	-.1311	-.1123	-.0575	-.0404	-.0473	-.0045	.0625	.0992	.1236	.1209	.1228	.1416	.1962

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.3620	.9000	.9400
PHI									
60.000							.0180		
70.000							-.0252	-.1185	.0000
80.000							-.0465	-.1690	-.1684
90.000	-.0185	.0592	.0474	.0516	.0284	.0000	-.0603	-.1721	-.1540
100.000	-.0118	.0821	.0970	.1054	.0419	-.0200			
110.000	.0921	.1409	.1730	.1600	.0756	-.0606			
120.000						-.1079			
130.000						.1653			
140.000						.3012			
150.000						.3535			
160.000						.3159			
170.000						.3573			
180.000	.0956	.3115	.3601	.3913	.4160	.4718			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (5) = 1.099 ALPHA (6) = 2.470

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0775	.0588	-.1610												
70.000	.1323	.0000	-.0878												
80.000	.1395	.0855	-.0235												
90.000			-.0289	-.3075	-.5315	-.5490	-.4963	-.4191	-.4081	-.4412	-.4113	-.3403	.0000	-.2019	-.1900
100.000						-.5509	-.5585	-.4938	-.4402	-.4399	-.4089	-.3287	-.2242	-.2328	-.1776
110.000						-.6497	-.6194	-.5871	-.5222	-.4645	-.3838	-.2843	.0000	-.2192	-.1772
120.000						-.5645								-.2246	
130.000						-.6923								-.2325	
140.000						-.7121								-.2749	
150.000						-.6531								-.2899	
160.000						-.6139								-.2965	
170.000						-.5447								-.2987	
180.000						-.5204	-.4253	-.3990	-.3907	-.3904	-.3666	-.3523	-.3115	-.2816	-.2125

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1474	-.1252	-.0986	-.0898	-.0878	.0448	.0914	.1223	.1255	.1170	.1007	.0610	.0051	-.0246	-.0303
100.000	.0000	-.1412	-.1098	-.0934	-.0401	.0180	.0662	.1077	.1262	.1129	.1099	.0711	.0307	.0123	-.0148
110.000	-.1547	.0000	-.0988	-.0856	-.0561	.0128	.0639	.0961	.1192	.1203	.1091	.0792	.0572	.0361	.0150
120.000						.0091								.0983	
130.000						-.0189								.1151	
140.000						-.0397								.1192	
150.000						-.0319								.1256	
160.000						-.0370								.1279	
170.000						-.0423								.1232	
180.000	-.1700	-.1482	-.1184	-.1065	-.0806	-.0390	-.0229	.0328	.0963	.1098	.1131	.1165	.1146	.1266	.1711

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0084		
70.000							-.0513	-.1438	.0000
80.000							-.0759	-.1945	-.2001
90.000	-.0752	.0102	-.0035	.0074	-.0164	.0000	-.0895	-.2048	-.1884
100.000	-.0852	.0329	.0464	.0636	.0057	-.0687			
110.000	.0478	.1031	.1371	.1132	.0308	-.1007			
120.000						-.0853			
130.000						.1446			
140.000						.2783			
150.000						.3123			
160.000						.2820			
170.000						.3318			
180.000	.0457	.2780	.3208	.3492	.3694	.3968			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (9) = 1.100 ALPHA (7) = 4.410

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0675	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0352	.0189	-.1772												
70.000	.0821	.0000	-.0900												
80.000	.0863	.0376	-.0442												
90.000			-.0356	-.3203	-.5165	-.5068	-.4123	-.4600	-.3886	-.4156	-.3764	-.3509	.0000	-.2345	-.2075
100.000						-.5103	-.4988	-.4382	-.4205	-.4266	-.3973	-.3527	-.2442	-.2533	-.1956
110.000						-.6344	-.5903	-.5223	-.4785	-.4755	-.3901	-.2891	.0000	-.2323	-.1908
120.000						-.5720								-.2181	
130.000						-.7115								-.2265	
140.000						-.7467								-.2521	
150.000						-.6873								-.2607	
160.000						-.6514								-.2582	
170.000						-.5901								-.2515	
180.000						-.5628	-.4677	-.4376	-.4255	-.4218	-.3912	-.3614	-.2809	-.2442	-.1728

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1640	-.1463	-.1080	-.0897	-.0614	.0290	.0925	.1114	.1176	.0911	.0851	.0341	-.0254	-.0591	-.0789
100.000	.0000	-.1569	-.1186	-.0340	-.0415	.0234	.0770	.1013	.1145	.0922	.0950	.0478	.0053	-.0183	-.0599
110.000	-.1675	.0000	-.1078	-.0906	-.0544	.0218	.0664	.0893	.1080	.1062	.0932	.0642	.0383	.0179	-.0166
120.000						.0171								.0766	
130.000						.0127								.1031	
140.000						-.0178								.1067	
150.000						-.0120								.1103	
160.000						-.0224								.1179	
170.000						-.0225								.1091	
180.000	-.1373	-.1208	-.0963	-.0911	-.0546	-.0214	-.0042	.0507	.0869	.1071	.1053	.1127	.1076	.1145	.1460

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0254		
70.000							-.0763	-.1625	.0000
80.000							-.0974	-.2171	-.2234
90.000	-.1287	-.0271	-.0423	-.0309	-.0547	.0000	-.1189	-.2373	-.2085
100.000	-.1213	.0035	-.0161	.0351	-.0260	-.1231			
110.000	.0118	.0762	.1155	.0826	-.0132	-.1414			
120.000						-.0594			
130.000						.1553			
140.000						.2236			
150.000						.2950			
160.000						.2681			
170.000						.3306			
180.000	.0155	.2459	.2883	.3197	.3478	.3615			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.190 ALPHA (8) = 6.617

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0214	-.0266	-.1841												
70.000	.0187	.0000	-.1012												
80.000	.0247	.0278	-.0477												
90.000			-.0281	-.2790	-.4860	-.4318	-.3997	-.4920	-.3586	-.3657	-.3483	-.3465	.0000	-.2731	-.2231
100.000						-.4582	-.4420	-.4338	-.4090	-.3886	-.3733	-.3806	-.2853	-.2817	-.2003
110.000						-.5962	-.5043	-.4858	-.4771	-.4746	-.3819	-.3231	.0000	-.2537	-.1940
120.000						-.5692								-.2184	
130.000						-.7220								-.2204	
140.000						-.7735								-.2208	
150.000						-.7124								-.2201	
160.000						-.6798								-.2148	
170.000						-.6198								-.2123	
180.000						-.5946	-.4952	-.4661	-.4498	-.4407	-.3998	-.3400	-.2451	-.2073	-.1341

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1747	-.1619	-.1151	-.0839	-.0350	.0703	.0934	.1071	.1093	.0812	.0675	.0154	-.0504	-.0826	-.1264
100.000	.0000	-.1572	-.1191	-.0853	-.0262	.0518	.0693	.0878	.1033	.0662	.0792	.0246	-.0205	-.0426	-.1128
110.000	-.1691	.0000	-.1094	-.0803	-.0237	.0520	.0617	.0855	.0981	.0932	.0772	.0415	.0134	-.0167	-.0605
120.000						.0390								.0595	
130.000						.0192								.0808	
140.000						.0024								.0900	
150.000						.0127								.0990	
160.000						.0084								.1033	
170.000						-.0019								.0938	
180.000	-.1049	-.0923	-.0715	-.0607	-.0361	-.0077	.0100	.0561	.0970	.1197	.0914	.1064	.0976	.0981	.1234

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0456		
70.000							-.0983	-.1791	.0000
80.000							-.1248	-.2372	-.2531
90.000	-.1709	-.0790	-.0776	-.0639	-.0915	.0000	-.1426	-.2541	-.2376
100.000	-.1613	-.0386	.0010	.0166	-.0498	-.1446			
110.000	-.0315	.0548	.1099	.0749	-.0278	-.1744			
120.000						-.0519			
130.000						.1542			
140.000						.2235			
150.000						.2881			
160.000						.2876			
170.000						.3751			
180.000	-.0273	.2066	.2611	.3096	.3545	.3798			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.101 ALPHA (9) = 8.741

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0401	-.0843	-.2014												
70.000	-.0088	.0000	-.1121												
80.000	-.0173	.0004	-.0531												
90.000			-.0251	-.2615	-.4304	-.4095	-.3790	-.5184	-.3165	-.3342	-.3234	-.3305	.0000	-.2993	-.2637
100.000						-.4122	-.4286	-.4111	-.3672	-.3559	-.3484	-.3838	-.3277	-.3334	-.2267
110.000						-.5474	-.4685	-.4772	-.4495	-.4424	-.3635	-.3762	.0000	-.2826	-.2174
120.000						-.5644								-.2181	
130.000						-.7315								-.2192	
140.000						-.8046								-.1865	
150.000						-.7445								-.1818	
160.000						-.7121								-.1741	
170.000						-.6494								-.1739	
180.000						-.6265	-.5227	-.4921	-.4746	-.4567	-.3954	-.2984	-.2098	-.1748	-.1067

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2026	-.1858	-.1401	-.0966	-.0280	.0728	.0930	.1040	.0935	.0477	.0270	-.0235	-.0750	-.1101	-.1523
100.000	.0000	-.1857	-.1429	-.0952	-.0218	.0591	.0714	.0826	.0982	.0360	.0383	-.0096	-.0488	-.0712	-.1415
110.000	-.1855	.0000	-.1146	-.0889	-.0216	.0509	.0597	.0763	.0849	.0608	.0374	.0084	-.0126	-.0443	-.0971
120.000						.0468								.0327	
130.000						.0345								.0468	
140.000						.0367								.0630	
150.000						.0459								.0752	
160.000						.0331								.0858	
170.000						.0288								.0736	
180.000	-.0869	-.0727	-.0534	-.0460	-.0271	.0158	.0306	.0772	.1068	.1049	.0675	.0973	.0837	.0765	.0900

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0742		
70.000							-.1271	-.2015	.0000
80.000							-.1474	-.2611	-.2768
90.000	-.1963	-.1288	-.1206	-.0893	-.1166	.0000	-.1614	-.2741	-.2649
100.000	-.1869	-.0866	-.0506	-.0020	-.0689	-.1638			
110.000	-.0743	.0173	.0690	.0867	-.0192	-.1858			
120.000						-.0566			
130.000						.1460			
140.000						.1829			
150.000						.2791			
160.000						.3090			
170.000						.4113			
180.000	-.0878	.1862	.2539	.3056	.3755	.4620			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (6) = 1.191 ALPHA (1) = -8.399

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3109	.2556	-.0073												
70.000	.3674	.0000	.0644												
80.000	.4088	.2505	.0777												
90.000			.0160	-.2628	-.4492	-.4796	-.4727	-.0669	-.4353	-.2794	-.1332	-.0773	.0000	-.0297	-.0248
100.000						-.4786	-.4942	-.4703	-.4481	-.3480	-.1825	-.1023	-.0629	-.0594	-.0285
110.000						-.6104	-.5525	-.5064	-.4138	-.3638	-.2577	-.1636	.0000	-.1096	-.0834
120.000						-.4142								-.2654	
130.000						-.4133								-.2951	
140.000						-.3731								-.2963	
150.000						-.3002								-.1878	
160.000						-.1915								-.1708	
170.000						-.1459								-.1540	
180.000						-.1280	-.0583	-.0492	-.0654	-.0959	-.0820	-.0980	-.1201	-.1227	-.1136

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0078	-.0055	-.0018	.0045	.0026	.0604	.1081	.1615	.2018	.2215	.2374	.2337	.2289	.2407	.2659
100.000	.0000	-.0179	-.0123	-.0062	.0021	.0371	.0722	.1204	.1698	.1809	.2122	.2180	.2230	.2360	.2442
110.000	-.0809	.0000	-.0578	-.0520	-.0236	.0228	.0430	.1039	.1538	.1832	.2042	.2187	.2370	.2469	.2701
120.000						-.0171								.2755	
130.000						-.0329								.2757	
140.000						-.0170								.2806	
150.000						.0240								.2843	
160.000						.0212								.2885	
170.000						.0351								.2829	
180.000	-.1164	-.0769	-.0450	-.0232	-.0829	.0374	.0244	.0209	.0342	.0764	.1210	.2194	.2583	.2878	.3572

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1542		
70.000							.1001	.0211	.0000
80.000							.0781	-.0163	-.0003
90.000	.2529	.3112	.2676	.2339	.1926	.0000	.0679	.0048	-.0157
100.000	.2559	.2808	.2760	.2710	.2214	.1496			
110.000	.2948	.3229	.3278	.3038	.2025	.0505			
120.000						-.0859			
130.000						.1849			
140.000						.4333			
150.000						.5340			
160.000						.5101			
170.000						.5362			
180.000	.2935	.4774	.5439	.6012	.6577	.7895			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.149 ALPHA (2) = -6.261

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.301	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2928	.2388	-.0206												
70.000	.3488	.0000	.0551												
80.000	.3858	.2347	.0727												
90.000			.0212	-.2805	-.4576	-.4863	-.4835	-.1162	-.4403	-.2991	-.1536	-.0916	.0000	-.0377	-.0194
100.000						-.4868	-.4997	-.4873	-.4724	-.3577	-.1884	-.1100	-.0726	-.0657	-.0345
110.000						-.6046	-.5559	-.5222	-.4938	-.3801	-.2225	-.1604	.0000	-.0982	-.0726
120.000						-.4303								-.2148	
130.000						-.4607								-.2604	
140.000						-.4286								-.2258	
150.000						-.3614								-.2053	
160.000						-.2643								-.1951	
170.000						-.2165								-.1811	
180.000						-.1946	-.1157	-.1029	-.1138	-.1317	-.1171	-.1372	-.1512	-.1498	-.1482

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0089	-.0008	.0063	.0110	.0216	.0907	.1340	.1852	.2082	.2160	.2237	.2116	.1949	.2009	.2295
100.000	.0000	-.0199	-.0115	.0045	.0304	.0733	.1104	.1540	.1852	.1830	.2077	.2035	.2014	.2142	.2236
110.000	-.0560	.0000	-.0411	-.0288	-.0101	.0554	.0748	.1259	.1558	.1760	.1884	.1884	.2018	.2109	.2317
120.000						.0253								.2482	
130.000						-.0243								.2549	
140.000						-.0115								.2587	
150.000						.0201								.2608	
160.000						.0210								.2612	
170.000						.0240								.2549	
180.000	-.1325	-.0911	-.0446	-.0108	-.0474	.0331	.0286	.0229	.0395	.0900	.1517	.1928	.2257	.2563	.3268

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1380		
70.000							.0896	.0032	.0000
80.000							.0702	-.0348	-.0263
90.000	.2179	.2813	.2432	.2170	.1773	.0000	.0573	-.0234	-.0215
100.000	.2202	.2874	.2654	.2549	.1989	.1308			
110.000	.2646	.3035	.3136	.2884	.1883	.0416			
120.000						-.0662			
130.000						.1981			
140.000						.4180			
150.000						.5092			
160.000						.4847			
170.000						.5107			
180.000	.2861	.4524	.3185	.3705	.6233	.7394			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8006)

MACH (8) = 1.149 ALPHA (3) = -4.109

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2781	.2256	-.0225												
70.000	.3337	.0000	.0564												
80.000	.3647	.2236	.0762												
90.000			.0307	-.2519	-.4536	-.4814	-.4851	-.1597	-.4150	-.3147	-.1538	-.0716	.0000	-.0186	-.0047
100.000						-.4826	-.5026	-.4942	-.4787	-.3525	-.1673	-.0936	-.0509	-.0512	-.0219
110.000						-.5936	-.5531	-.5268	-.4858	-.3929	-.1949	-.1151	.0000	-.0809	-.0475
120.000						-.4420								-.1320	
130.000						-.4903								-.1969	
140.000						-.4644								-.2328	
150.000						-.4015								-.2235	
160.000						-.3256								-.2096	
170.000						-.2524								-.1999	
180.000						-.2349	-.1666	-.1498	-.1611	-.1743	-.1553	-.1606	-.1694	-.1750	-.1562

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	.0120	.0083	.0108	.0141	.0287	.1165	.1622	.1919	.2039	.2011	.1976	.1678	.1388	.1328	.1505
100.000	.0000	-.0200	-.0084	-.0022	.0358	.0979	.1304	.1606	.1904	.1798	.1928	.1684	.1494	.1492	.1623
110.000	-.0284	.0000	-.0182	-.0189	.0169	.0789	.1031	.1309	.1585	.1705	.1654	.1497	.1511	.1483	.1726
120.000						.0572								.1930	
130.000						.0190								.1939	
140.000						.0160								.1965	
150.000						.0436								.1963	
160.000						.0466								.1983	
170.000						.0401								.1898	
180.000	-.1178	-.0770	-.0228	-.0026	-.0196	.0575	.0454	.0487	.0871	.1399	.1575	.1631	.1719	.1930	.2784

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1192		
70.000							.0767	-.0249	.0000
80.000							.0501	-.0692	-.0636
90.000	.1486	.2183	.1985	.1860	.1522	.0000	.0381	-.0595	-.0515
100.000	.1908	.2236	.2329	.2317	.1755	.1070			
110.000	.2131	.2687	.2919	.2730	.1706	.0298			
120.000						-.0607			
130.000						.2054			
140.000						.3955			
150.000						.4775			
160.000						.4451			
170.000						.4766			
180.000	.2093	.4155	.4706	.5282	.5714	.6707			

AEDS 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (6) = 1.152 ALPHA (4) = -1.955

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1645	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2464	.2035	-.0325												
70.000	.3003	.0000	.0511												
80.000	.3243	.2057	.0742												
90.000			.0386	-.2411	-.4488	-.4732	-.4698	-.2014	-.3520	-.2863	-.1646	-.0778	.0000	.0110	-.0020
100.000						-.4766	-.4889	-.4827	-.4383	-.2973	-.1566	-.0843	-.0290	-.0348	.0033
110.000						-.5707	-.5402	-.5218	-.4871	-.3499	-.1732	-.0893	.0000	-.0372	-.0109
120.000						-.4469								-.0763	
130.000						-.5227								-.1414	
140.000						-.5060								-.1933	
150.000						-.4473								-.2166	
160.000						-.3821								-.2201	
170.000						-.2965								-.2124	
180.000						-.2830	-.2068	-.1886	-.1912	-.1988	-.1815	-.1840	-.1910	-.1923	-.1368

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0191	.0056	.0196	.0443	.0691	.1227	.1909	.1947	.2055	.2012	.1827	.1413	.0970	.0788	.0882
100.000	.0000	-.0020	.0086	.0317	.0830	.1220	.1601	.1735	.2019	.1893	.1824	.1460	.1167	.1083	.1013
110.000	-.0082	.0000	.0078	.0199	.0499	.1060	.1366	.1549	.1754	.1861	.1646	.1413	.1318	.1225	.1240
120.000						.0859								.1539	
130.000						.0677								.1609	
140.000						.0614								.1650	
150.000						.0753								.1652	
160.000						.0788								.1681	
170.000						.0844								.1613	
180.000	-.0772	-.0374	.0133	.0358	.0089	.0869	.0709	.0842	.1378	.1587	.1629	.1504	.1486	.1652	.2367

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0901		
70.000							.0468	-.0415	.0000
80.000							.0248	-.0895	-.0854
90.000	.0882	.1931	.1387	.1387	.1093	.0000	.0096	-.0854	-.0772
100.000	.0746	.1960	.1688	.1821	.1260	.0647			
110.000	.1603	.2163	.2534	.2408	.1409	.0019			
120.000						-.0641			
130.000						.1902			
140.000						.3660			
150.000						.4310			
160.000						.3994			
170.000						.4353			
180.000	.1849	.3802	.4381	.4836	.5143	.5910			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.190 ALPHA (9) = .215

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2087	.1719	-.0360												
70.000	.2734	.3000	.0292												
80.000	.2832	.1839	.0618												
90.000			.0329	-.2392	-.4445	-.4531	-.4544	-.2467	-.3028	-.2050	-.2161	-.1057	.0000	-.0198	-.0136
100.000						-.4553	-.4827	-.4389	-.3650	-.2954	-.1808	-.1044	-.0408	-.0417	-.0024
110.000						-.5642	-.5293	-.5033	-.4398	-.2941	-.1860	-.0915	.0000	-.0433	-.0122
120.000						-.4491								-.0642	
130.000						-.5537								-.1029	
140.000						-.5489								-.1408	
150.000						-.4694								-.1680	
160.000						-.4392								-.1884	
170.000						-.3416								-.1789	
180.000						-.3316	-.2509	-.2263	-.2210	-.2269	-.2092	-.2071	-.1913	-.1587	-.0884

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0209	.0276	.0491	.0658	.0793	.1356	.1804	.2036	.1980	.1871	.1721	.1332	.0803	.0489	.0388
100.000	.0000	.0292	.0354	.0569	.0777	.1135	.1671	.1818	.1925	.1732	.1786	.1327	.0969	.0758	.0504
110.000	.0191	.0000	.0316	.0456	.0721	.1109	.1555	.1720	.1815	.1409	.1686	.1412	.1222	.0991	.0825
120.000						.0998								.1327	
130.000						.0957								.1413	
140.000						.0727								.1473	
150.000						.1059								.1475	
160.000						.0935								.1496	
170.000						.0966								.1405	
180.000	-.0884	.0190	.0467	.0465	.0417	.1961	.1058	.1156	.1432	.1520	.1663	.1503	.1413	.1419	.1998

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0659		
70.000							.0224	-.0692	.0000
80.000							-.0005	-.1182	-.1100
90.000	.0021	.0803	.0803	.0884	.0644	.0050	-.0155	-.1153	-.1025
100.000	.0108	.1131	.1241	.1427	.0815	.0238			
110.000	.1124	.1704	.2046	.1964	.1149	-.0188			
120.000						-.0671			
130.000						.2027			
140.000						.3407			
150.000						.3970			
160.000						.3650			
170.000						.4012			
180.000	.1189	.3428	.3906	.4381	.4724	.5225			

AMES 66-330 PRESSURE VENTING - INTEG. VEHICLE (9EB008)

MACH (8) = 1.191 ALPHA (6) = 2.368

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1423	.1512	-.0086												
70.000	.2048	.0000	.0122												
80.000	.2110	.1754	.0916												
90.000			.0393	-.2518	-.4450	-.4477	-.3662	-.3043	-.2650	-.3028	-.2493	-.1535	.0000	-.0208	.0159
100.000						-.4720	-.4610	-.3744	-.2974	-.2985	-.2306	-.1381	-.0546	-.0549	.0108
110.000						-.5663	-.5282	-.4867	-.3574	-.3079	-.2107	-.1378	.0000	-.0523	.0031
120.000						-.4670								-.0665	
130.000						-.5852								-.0849	
140.000						-.5931								-.1108	
150.000						-.5264								-.1280	
160.000						-.4831								-.1280	
170.000						-.3778								-.1352	
180.000						-.3605	-.3061	-.2686	-.2604	-.2620	-.2395	-.2214	-.1475	-.1235	-.0282

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0305	.0731	.0863	.0721	.0897	.1505	.1935	.2142	.2153	.1863	.1563	.1124	.0548	.0211	.0125
100.000	.0620	.0525	.0357	.0655	.1041	.1339	.1693	.1950	.2086	.1728	.1626	.1221	.0748	.0466	.0242
110.000	.0308	.0000	.0661	.0805	.0795	.1364	.1621	.1942	.1991	.1749	.1633	.1298	.0948	.0632	.0565
120.000						.1223								.1157	
130.000						.1579								.1263	
140.000						.1503								.1342	
150.000						.1637								.1379	
160.000						.1405								.1415	
170.000						.1333								.1321	
180.000	.0134	.0442	.0992	.0560	.0648	.1268	.1440	.1647	.1661	.1640	.1623	.1493	.1366	.1352	.1904

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0305		
70.000							-.0027	-.0910	.0000
80.000							-.0278	-.1408	-.1396
90.000	-.0419	.0477	.0397	.0530	.0296	.0000	-.0450	-.1519	-.1267
100.000	-.0278	.0606	.0541	.1137	.0521	-.0205			
110.000	.0722	.1392	.1906	.1676	.0752	-.0576			
120.000						-.0392			
130.000						.1768			
140.000						.3157			
150.000						.3584			
160.000						.3283			
170.000						.3718			
180.000	.0749	.3218	.3792	.4123	.4907	.4733			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (6) = 1.151 ALPHA (7) = 4.453

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1306	.1167	-.1162												
70.000	.1992	.0000	-.0192												
80.000	.2049	.1415	.0320												
90.000			.0416	-.2516	-.4439	-.3935	-.2762	-.3408	-.2578	-.3026	-.2553	-.2023	.0000	-.0605	-.0195
100.000						-.4069	-.3561	-.2837	-.2749	-.3122	-.2806	-.1912	-.0817	-.0847	-.0168
110.000						-.5337	-.4453	-.3887	-.3304	-.3477	-.2436	-.1471	.0000	-.0747	-.0170
120.000						-.4670								-.0675	
130.000						-.6060								-.0802	
140.000						-.6288								-.0858	
150.000						-.5763								-.0856	
160.000						-.5311								-.0758	
170.000						-.4446								-.0716	
180.000						-.4313	-.3465	-.3080	-.3004	-.2915	-.2582	-.1964	-.1047	-.0589	-.0007

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0228	.0434	.0808	.0970	.1060	.1483	.1899	.1985	.1904	.1561	.1361	.0881	.0260	-.0109	-.0432
100.000	.0000	.0461	.0632	.0940	.1106	.1439	.1747	.1839	.1886	.1494	.1456	.1004	.0532	.0216	-.0280
110.000	.0239	.0000	.0739	.0773	.1028	.1407	.1644	.1784	.1783	.1619	.1423	.1105	.0788	.0444	.0086
120.000						.1337								.0966	
130.000						.1442								.1159	
140.000						.1268								.1191	
150.000						.1372								.1217	
160.000						.1277								.1240	
170.000						.1370								.1173	
180.000	.0311	.0855	.0789	.0706	.0850	.1324	.1329	.1486	.1542	.1514	.1530	.1389	.1287	.1203	.1560

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0161		
70.000							-.0329	-.1129	.0000
80.000							-.0593	-.1650	-.1633
90.000	-.1078	-.0073	-.0081	.0053	-.0197	.0000	-.0828	-.1810	-.1493
100.000	-.0983	.0228	.0474	.0742	.0120	-.0833			
110.000	.0144	.0969	.1548	.1307	.0310	-.1019			
120.000						-.0231			
130.000						.1805			
140.000						.2704			
150.000						.3294			
160.000						.3084			
170.000						.3590			
180.000	.0220	.2804	.3357	.3722	.4012	.4788			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.151 ALPHA (8) = 6.608

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0644	.0727	-.1066												
70.000	.1046	.0000	-.0233												
80.000	.1287	.1185	.0241												
90.000			.0491	-.2375	-.3149	-.2949	-.2984	-.3641	-.2642	-.2578	-.2398	-.2092	.0000	-.0857	-.0454
100.000						-.3097	-.3395	-.3352	-.3148	-.2857	-.2748	-.2222	-.1010	-.1008	-.0322
110.000						-.4810	-.3876	-.3968	-.3736	-.3701	-.2571	-.1802	.0000	-.0855	-.0244
120.000						-.4613								-.0549	
130.000						-.6166								-.0699	
140.000						-.6614								-.0522	
150.000						-.6013								-.0556	
160.000						-.5643								-.0438	
170.000						-.5001								-.0489	
180.000						-.4741	-.3632	-.3428	-.3324	-.3068	-.2353	-.1516	-.0731	-.0464	.0329

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0044	.0132	.0493	.0954	.1060	.1587	.1834	.1928	.1881	.1414	.1167	.0620	.0019	-.0394	-.0757
100.000	.0000	.0062	.0454	.0926	.1194	.1432	.1663	.1772	.1846	.1243	.1239	.0676	.0212	-.0041	-.0702
110.000	.0125	.0000	.0678	.0750	.1229	.1409	.1609	.1712	.1746	1475	.1111	.0769	.0534	.0181	-.0287
120.000						.1377								.0760	
130.000						.1619								.0967	
140.000						.1572								.1053	
150.000						.1623								.1086	
160.000						.1481								.1108	
170.000						.1256								.1015	
180.000	.0540	.0634	.0736	.0808	.1028	.1403	.1421	.1600	.1598	.1544	.1283	.1220	.1131	.1073	.1297

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0110		
70.000							-.0652	-.1365	.0000
80.000							-.0906	-.1960	-.2054
90.000	-.1436	-.0708	-.0527	-.0274	-.0558	.0000	-.1135	-.2190	-.1913
100.000	-.1247	-.0342	.0097	.0561	-.0097	-.1203			
110.000	-.0294	.0604	.1459	.1219	.0178	-.1322			
120.000						-.0057			
130.000						.1825			
140.000						.2448			
150.000						.3229			
160.000						.3141			
170.000						.3822			
180.000	-.0255	.2397	.3044	.3489	.3859	.3920			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (6) = 1.149 ALPHA (9) = 8.739

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0349	.0626	-.0822												
70.000	.0869	.0000	-.0042												
80.000	.1029	.1211	.0391												
90.000			.0629	-.1741	-.3031	-.3558	-.3066	-.3981	-.1741	-.1943	-.1921	-.1987	.0000	-.1517	-.0978
100.000						-.3579	-.3574	-.3080	-.2370	-.2129	-.2136	-.2486	-.1573	-.1631	-.0720
110.000						-.3856	-.3945	-.4010	-.3290	-.3064	-.2368	-.2007	.0000	-.1208	-.0592
120.000						-.4223								-.0601	
130.000						-.6247								-.0675	
140.000						-.6932								-.0264	
150.000						-.6354								-.0157	
160.000						-.6044								-.0062	
170.000						-.5310								-.0061	
180.000						-.5073	-.4058	-.3733	- 3518	-.2955	- 2295	-.1405	-.0422	-.0059	.0554

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0401	-.0162	.0351	.0675	.1067	.1397	.1477	.1563	.1477	.1043	.0763	.0195	- 0435	-.0745	-.1115
100.000	.0000	-.0108	.0266	.0739	.1178	.1281	.1298	.1372	.1519	.0901	.0862	.0243	-.0146	-.0356	-.1086
110.000	-.0229	.0000	.0305	.0587	.1050	.1198	.1307	.1282	.1374	.1152	.0813	.0428	.0138	-.0173	-.0725
120.000						.1254								.0489	
130.000						.1421								.0612	
140.000						.1375								.0718	
150.000						.1451								.0843	
160.000						.1340								.0922	
170.000						.1377								.0802	
180.000	.0633	.0593	.0776	.0769	.1013	.1212	.1303	.1407	.1451	.1421	.1034	.1119	.0938	.0793	.0920

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0470		
70.000							-.0973	-.1652	.0000
80.000							-.1169	-.2206	-.2357
90.000	-.1739	-.1182	-.1083	-.0864	-.0824	.0000	-.1359	-.2439	-.2233
100.000	-.1676	-.0936	-.0749	.0291	-.0293	-.1323			
110.000	-.0787	.0067	.1121	.1039	.0131	-.1511			
120.000						-.0020			
130.000						.1793			
140.000						.2194			
150.000						.3227			
160.000						.3474			
170.000						.4476			
180.000	-.0764	.1927	.2708	.3332	.3973	.4107			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (7) = 1.249 ALPHA (1) = -8.588

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3200	.2842	.0511												
70.000	.3684	.0000	.1246												
80.000	.4091	.2811	.1437												
90.000			.0961	-.1741	-.3649	-.3997	-.4043	-.1346	-.4094	-.3941	-.2729	-.1771	.0000	-.1032	-.0969
100.000						-.4014	-.4221	-.4149	-.4121	-.3825	-.3088	-.2229	-.1434	-.1369	-.0964
110.000						-.5185	-.4795	-.4501	-.4078	-.3504	-.4274	-.2795	.0000	-.1880	-.1373
120.000						-.3536								-.2500	
130.000						-.3655								-.3460	
140.000						-.3335								-.1905	
150.000						-.2856								-.1761	
160.000						-.2325								-.1564	
170.000						-.1935								-.1408	
180.000						-.1702	-.0927	-.0726	-.0793	-.0964	-.0835	-.0933	-.1077	-.1171	-.1198

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0659	-.0670	-.0579	-.0599	-.0826	-.0630	-.0535	-.0331	-.0022	.0242	.0320	.0156	-.0030	.0026	.0117
100.000	.0000	-.0847	-.0747	-.0694	-.0660	-.0730	-.0774	-.0635	-.0314	-.0290	-.0015	-.0118	-.0238	-.0121	-.0131
110.000	-.1308	.0000	-.1269	-.1236	-.1169	-.0921	-.0966	-.0808	-.0585	-.0326	-.0197	-.0174	-.0145	-.0144	-.0079
120.000						-.1577								-.0245	
130.000						-.1269								-.0429	
140.000						-.1183								-.0444	
150.000						-.0870								-.0444	
160.000						-.0922								-.0338	
170.000						-.0886								-.0394	
180.000	-.1274	-.1299	-.1096	-.1092	-.1057	-.0846	-.0800	-.0722	-.0657	-.0515	-.1055	-.0380	-.0332	-.0272	-.0095

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1722		
70.000							.1246	.0494	.0000
80.000							.1058	.0174	.0313
90.000	.0138	.0166	.1482	.1397	.1457	.0000	.0847	.0192	-.0477
100.000	.0117	.0320	.1269	.1681	.1654	.1058			
110.000	.0464	.0952	.2025	.1859	.1024	.0019			
120.000						-.0845			
130.000						.2129			
140.000						.4646			
150.000						.5726			
160.000						.5250			
170.000						.5062			
180.000	.0540	.2332	.4604	.5300	.5755	.7133			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8008)

MACH (7) = 1.250 ALPHA (2) = -6.282

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2621	.2566	.0352												
70.000	.3325	.0000	.1103												
80.000	.3622	.2545	.1350												
90.000			.1011	-.1701	-.3725	-.4079	-.4127	-.1531	-.4185	-.4076	-.3060	-.2040	.0000	-.1331	-.1219
100.000						-.4074	-.4298	-.4259	-.4284	-.4125	-.3340	-.2361	-.1609	-.1570	-.1243
110.000						-.5089	-.4779	-.4595	-.4310	-.3849	-.3555	-.2781	.0000	-.1865	-.1491
120.000						-.3743								-.2621	
130.000						-.4081								-.2875	
140.000						-.3848								-.2165	
150.000						-.3396								-.2036	
160.000						-.3033								-.1926	
170.000						-.2543								-.1797	
180.000						-.2311	-.1503	-.1267	-.1295	-.1443	-.1276	-.1357	-.1506	-.1575	-.1502

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0932	-.0892	-.0770	-.0787	-.1070	-.0899	-.0825	-.0691	-.0262	.0108	.0200	.0018	-.0207	-.0190	.0135
100.000	.0000	-.1052	-.0940	-.0872	-.0833	-.0923	-.0955	-.0842	-.0456	.0303	.0009	.0100	-.0246	.0233	-.0255
110.000	-.1359	.0000	-.1245	-.1213	-.1154	-.1047	-.1115	-.0996	-.0732	.0451	-.0252	.0286	-.0282	-.0332	-.0296
120.000						-.1138								-.0329	
130.000						-.1329								-.0488	
140.000						-.1319								-.0566	
150.000						-.1015								-.0579	
160.000						-.1053								-.0536	
170.000						-.1007								-.0636	
180.000	-.1537	-.1537	-.1350	-.1337	-.1343	-.1031	-.0988	-.0948	-.0857	-.0773	-.0695	-.0672	-.0614	-.0550	-.0349

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1369		
70.000							.1016	.0181	.0000
80.000							.0742	-.0202	-.0064
90.000	-.0202	.0193	.0814	.0951	.0894	.0000	.0521	-.0201	-.0105
100.000	-.0255	.0721	.0843	.1418	.1194	.0650			
110.000	.0105	.1101	.1677	.1562	.0780	-.0184			
120.000						-.0726			
130.000						.2196			
140.000						.4401			
150.000						.5290			
160.000						.4803			
170.000						.4540			
180.000	.0139	.2477	.4008	.4745	.5131	.6406			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (7) = 1.249 ALPHA (3) = -4.117

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2395	.2121	.0228												
70.000	.2906	.0000	.0841												
80.000	.3150	.2221	.1068												
90.000			.0776	-.1892	-.3760	-.4124	-.4206	-.2001	-.4208	-.4217	-.3354	-.2389	.0000	-.1538	-.1426
100.000						-.4142	-.4344	-.4330	-.4386	-.4310	-.3622	-.2604	-.1784	-.1749	-.1428
110.000						-.5050	-.4789	-.4677	-.4483	-.4152	-.3618	-.2879	.0000	-.1898	-.1554
120.000						-.3893								-.2700	
130.000						-.4433								-.2808	
140.000						-.4290								-.2394	
150.000						-.3825								-.2300	
160.000						-.3562								-.2240	
170.000						-.3099								-.2128	
180.000						-.2847	-.2054	-.1746	-.1771	-.1880	-.1727	-.1750	-.1859	-.1903	-.1835

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1196	-.1064	-.0845	-.0852	-.1199	-.0987	-.0919	-.0844	-.0451	.0016	.0288	.0093	-.0050	-.0056	-.0131
100.000	.0000	-.1240	-.1081	-.0964	-.0936	-.1026	-.1071	-.0971	-.0597	-.0299	.0144	-.0004	-.0107	-.0018	-.0160
110.000	-.1437	.0000	-.1245	-.1201	-.1125	-.1086	-.1120	-.1026	-.0825	-.0514	-.0201	-.0146	-.0138	-.0171	-.0167
120.000						-.1111								-.0181	
130.000						-.1352								-.0351	
140.000						-.1357								-.0498	
150.000						-.1101								-.0533	
160.000						-.1115								-.0564	
170.000						-.1110								-.0744	
180.000	-.1871	-.1784	-.1564	-.1531	-.1255	-.1098	-.1141	-.1079	-.1007	-.0871	-.0378	-.0758	-.0771	-.0679	-.0427

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1021		
70.000							.0647	-.0078	.0000
80.000							.0385	-.0521	-.0465
90.000	-.0397	.0035	.0491	.0545	.0442	.0000	.0106	-.0623	-.0358
100.000	-.0435	.0442	.0480	.1137	.0820	.0205			
110.000	.0062	.0803	.1513	.1480	.0629	-.0420			
120.000						-.0565			
130.000						.2301			
140.000						.4145			
150.000						.4827			
160.000						.4323			
170.000						.4245			
180.000	.0112	.1952	.3699	.4276	.4627	.5785			

AMES 6-630 PRESSURE VENTING - INTEG. VEHICLE (REB006)

MACH (7) = 1.231 ALPHA (4) = -1.991

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2035	.1628	-.0222												
70.000	.2489	.0000	.0624												
80.000	.2619	.2048	.0976												
90.000			.0850	-.1764	-.3937	-.4330	-.4413	-.2453	-.4177	-.4061	-.3293	-.2596	.0000	-.1683	-.1607
100.000						-.4307	-.4505	-.4494	-.4387	-.4359	-.3624	-.2605	-.1898	-.1859	-.1566
110.000						-.5114	-.4910	-.4848	-.4586	-.4353	-.3631	-.2800	.0000	-.1842	-.1571
120.000						-.4131								-.2636	
130.000						-.4790								-.2722	
140.000						-.4743								-.2622	
150.000						-.4246								-.2591	
160.000						-.3990								-.2590	
170.000						-.3629								-.2447	
180.000						-.3327	-.2511	-.2201	-.2166	.2281	.2131	.2132	-.2178	-.2217	-.2169

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1342	-.1156	-.0898	-.0888	-.1232	-.0996	-.0898	-.0709	-.0342	.0005	.0245	.0058	-.0141	-.0194	-.0253
100.000	.0000	-.1401	-.1190	-.1003	-.0956	-.1086	-.1051	-.0917	-.0484	-.0251	.0183	.0054	-.0064	-.0051	-.0212
110.000	-.1905	.0000	-.1237	-.1103	-.1034	-.1079	-.1025	-.0883	-.0683	-.0374	-.0094	.0070	-.0101	-.0142	-.0148
120.000						-.1101								-.0108	
130.000						-.1283								-.0173	
140.000						-.1319								-.0266	
150.000						-.1149								-.0362	
160.000						-.1211								-.0414	
170.000						-.1151								-.0573	
180.000	-.2133	-.1982	-.1688	-.1545	-.1154	-.1137	-.1137	-.1101	-.1030	-.0922	-.0839	-.0702	-.0681	-.0594	-.0105

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0677		
70.000							.0265	-.0352	.0000
80.000							.0033	-.0875	-.0805
90.000	-.0681	.0098	.0271	.0284	.0111	.0000	-.0202	-.0949	-.0676
100.000	-.0714	.0327	.0289	.0923	.0547	-.0026			
110.000	.0020	.0840	.1480	.1497	.0698	-.0562			
120.000						-.0447			
130.000						.2333			
140.000						.3856			
150.000						.4340			
160.000						.3918			
170.000						.4033			
180.000	.0098	.2431	.3363	.3822	.4142	.5006			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (PEBSOA)

MACH (7) = 1.250 ALPHA (5) = .150

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1733	.1585	-.0252												
70.000	.2127	.0000	.0527												
80.000	.2168	.1936	.0936												
90.000			.0960	-.1728	-.4060	-.4492	-.4607	-.2872	-.4700	-.4256	-.3402	-.2793	.0000	-.1801	-.1657
100.000						-.4503	-.4684	-.4733	-.4813	-.4848	-.4001	-.2714	-.1984	-.1908	-.1538
110.000						-.5125	-.5022	-.5024	-.4959	-.4904	-.3871	-.2878	.0000	-.1879	-.1616
120.000						-.4221								-.2681	
130.000						-.5054								-.2757	
140.000						-.5128								-.2988	
150.000						-.4600								-.2945	
160.000						-.4341								-.2951	
170.000						-.4032								-.2829	
180.000						-.3692	-.2922	-.2665	-.2629	-.2719	-.2552	-.2534	-.2578	-.2623	-.2588

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1357	-.1204	-.0904	-.0882	-.1296	-.1001	-.0873	-.0655	-.0291	.0011	.0171	-.0004	-.0286	-.0310	-.0432
100.000	.0000	-.1355	-.1093	-.0974	-.0942	-.1054	-.0985	-.0815	-.0401	-.0186	.0184	-.0045	-.0214	-.0150	-.0374
110.000	-.1499	.0000	-.1248	-.1115	-.1026	-.1038	-.0974	-.0811	-.0561	-.0229	.0077	-.0054	-.0066	-.0066	-.0139
120.000						-.1057								-.0021	
130.000						-.1050								.0015	
140.000						-.1141								-.0064	
150.000						-.1014								-.0135	
160.000						-.1122								-.0191	
170.000						-.1055								-.0308	
180.000	-.2488	-.2255	-.1896	-.1727	-.1089	-.1120	-.1036	-.1038	-.0868	-.0724	-.0131	-.0548	-.0454	-.0365	.0137

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0279		
70.000							-.0068	-.0690	.0000
80.000							-.0325	-.1200	-.1190
90.000	-.0930	.0027	-.0137	-.0052	-.0231	.0000	-.0552	-.1322	-.1009
100.000	-.0956	.0030	-.0075	.0677	.0199	-.0445			
110.000	-.0228	.0628	.1317	.1362	.0766	-.0575			
120.000						-.0509			
130.000						.2290			
140.000						.3467			
150.000						.3753			
160.000						.3309			
170.000						.3474			
180.000	-.0152	.2309	.2941	.3240	.3505	.4137			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (7) = 1.250 ALPHA (6) = 2.543

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1477	.1252	-.0463												
70.000	.1879	.0000	.0336												
80.000	.1862	.1705	.0845												
90.000			.0498	-.1695	-.4118	-.4579	-.4724	-.3233	-.4878	-.4295	-.3340	-.2865	.0000	-.1824	-.1605
100.000						-.4600	-.4779	-.4869	-.4966	-.5057	-.4031	-.2877	-.2031	-.2038	-.1546
110.000						-.5111	-.5055	-.5105	-.5092	-.5209	-.3985	-.2804	.0000	-.1888	-.1599
120.000						-.4322								-.2387	
130.000						-.5264								-.2616	
140.000						-.5483								-.3258	
150.000						-.4956								-.3212	
160.000						-.4708								-.3214	
170.000						-.4428								-.3175	
180.000						-.4049	-.3305	-.3029	-.2995	-.3074	-.2928	-.2872	-.2941	-.2995	-.2919

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1265	-.1150	-.0890	-.0900	-.1280	-.1048	-.0912	-.0743	-.0400	-.0021	.0219	-.0178	-.0410	-.0451	-.0634
100.000	.0000	-.1309	-.1089	-.0985	-.0973	-.1092	-.1023	-.0843	-.0434	-.0203	.0163	-.0072	-.0269	-.0204	-.0533
110.000	-.1440	.0000	-.1145	-.1087	-.1055	-.1083	-.0948	-.0803	-.0548	-.0175	.0139	.0005	-.0189	-.0115	-.0298
120.000						-.1070								-.0039	
130.000						-.0898								.0093	
140.000						-.0881								.0090	
150.000						-.0759								.0063	
160.000						-.0798								.0032	
170.000						-.0816								-.0084	
180.000	-.2769	-.2448	-.2042	-.1641	-.1070	-.0855	-.0840	-.0776	-.0656	-.0544	.0024	-.0400	-.0292	-.0101	.0644

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0031		
70.000							-.0449	-.0959	.0000
80.000							-.0653	-.1491	-.1517
90.000	-.1272	-.0578	-.0583	-.0334	-.0452	.0000	-.0913	-.1657	-.1361
100.000	-.1241	-.0512	-.0426	.0392	-.0016	-.0750			
110.000	-.0439	.0080	.0862	.1058	.0505	-.0852			
120.000						.0133			
130.000						.1613			
140.000						.3014			
150.000						.3055			
160.000						.2656			
170.000						.2932			
180.000	-.0418	.2084	.2352	.2563	.2660	.3354			

AMES 6-633 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (7) = 1.250 ALPHA (7) = 4.4[illegible]

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1393	.0565	-.0767												
70.000	.1690	.0000	-.0037												
80.000	.1876	.1497	.0642												
90.000			.0951	-.1710	-.4105	-.4662	-.4826	-.3577	-.4974	-.4066	-.3229	-.2803	.0000	-.1944	-.1589
100.000						-.4674	-.4839	-.4962	-.5055	-.5094	-.3881	-.3056	-.2186	-.2123	-.1449
110.000						-.5109	-.5082	-.5178	-.5192	-.5382	-.3947	-.2647	.0000	-.1989	-.1571
120.000						-.4417								-.2152	
130.000						-.5484								-.2410	
140.000						-.5813								-.3393	
150.000						-.5278								-.3411	
160.000						-.5045								-.3415	
170.000						-.4743								-.3415	
180.000						-.4369	-.3802	-.3348	-.3320	-.3392	-.3243	-.3176	-.3226	-.3265	-.3084

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1199	-.1146	-.0982	-.1026	-.1204	-.1133	-.1005	-.0830	-.0535	-.0135	.0009	-.0286	-.0571	-.0657	-.0888
100.000	.0000	-.1157	-.1087	-.1085	-.1072	-.1190	-.1160	-.0890	-.0544	-.0127	.0136	-.0231	-.0420	-.0387	-.0848
110.000	-.1341	.0000	-.1072	-.1150	-.1172	-.1179	-.1043	-.0830	-.0540	-.0149	.0102	-.0089	-.0266	-.0243	-.0567
120.000						-.1141								-.0132	
130.000						-.0708								.0053	
140.000						-.0732								.0157	
150.000						-.0552								.0184	
160.000						-.0593								.0192	
170.000						-.0562								.0160	
180.000	-.2944	-.2483	-.1848	-.1285	-.1106	-.0635	-.0843	-.0593	-.0502	-.0423	.0095	-.0243	-.0084	.0194	.0869

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0256		
70.000							-.0865	-.1134	.0000
80.000							-.0896	-.1694	-.1910
90.000	-.1536	-.1041	-.1070	-.0818	-.0587	.0000	-.1127	-.1923	-.1757
100.000	-.1323	-.1158	-.1070	.0324	-.0018	-.0846			
110.000	-.0819	-.0615	.0813	.1165	.0660	-.0938			
120.000						.0077			
130.000						.2067			
140.000						.2101			
150.000						.2534			
160.000						.2314			
170.000						.2660			
180.000	-.0756	.1539	.1668	.2211	.2665	.3401			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (M) = 1.250 ALPHA (A) = 6.559

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1181	.0542	-.1212												
70.000	.1377	.0000	-.0251												
80.000	.1360	.0814	.0518												
90.000			.0912	-.1654	-.4207	-.4697	-.4875	-.3680	-.4887	-.3420	-.2908	-.2665	.0000	-.1978	-.1675
100.000						-.4681	-.4855	-.5010	-.5126	-.4741	-.3410	-.3015	-.2210	-.2181	-.1500
110.000						-.4996	-.5088	-.5209	-.5271	-.5475	-.3679	-.2962	.0000	-.2036	-.1489
120.000						-.4454								-.2078	
130.000						-.5629								-.2259	
140.000						-.6098								-.3215	
150.000						-.5566								-.3577	
160.000						-.5329								-.3620	
170.000						-.4984								-.3596	
180.000						-.4633	-.3815	-.3672	-.3635	-.3670	-.3522	-.3450	-.3465	-.3447	-.3203

X/L	.4900	.4680	.4860	.9090	.9240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.1306	-.1381	-.1201	-.1284	-.1120	-.1334	-.1170	-.0841	-.0458	.0017	.0084	-.0427	-.0847	-.0826	-.1115
100.000	.0000	-.1454	-.1391	-.1346	-.1310	-.1463	-.1316	-.1074	-.0396	-.0181	.0116	-.0345	-.0539	-.0589	-.1090
110.000	-.1381	.0000	-.1330	-.1412	-.1393	-.1442	-.1234	-.0998	-.0547	.0011	.0034	-.0283	-.0449	-.0487	-.0888
120.000						-.1324								-.0188	
130.000						-.0928								-.0070	
140.000						-.0617								.0048	
150.000						-.0483								.0116	
160.000						-.0442								.0138	
170.000						-.0417								.0077	
180.000	-.2824	-.1959	-.1327	-.0978	-.1248	-.0549	-.0569	-.0528	-.0418	-.0355	.0051	-.0202	-.0087	.0065	.0454

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0475		
70.000							-.0916	-.1305	.0000
80.000							-.1209	-.1874	-.2152
90.000	-.1758	-.1439	-.1534	-.0794	-.0735	.0000	-.1528	-.2188	-.2017
100.000	-.1728	-.1387	-.1447	.0160	-.0189	-.1088			
110.000	-.1197	-.1070	.0466	.1019	.0303	-.1051			
120.000						.0314			
130.000						.2105			
140.000						.2037			
150.000						.2382			
160.000						.2354			
170.000						.2874			
180.000	-.1128	.1373	.2182	.2599	.3053	.3390			

AMES 60-635 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (P) = 1.290 ALPHA (9) = 0.696

SECTION (11ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0815	.0233	-.1758												
70.000	.0872	.0000	-.0721												
60.000	.0691	.0626	.0160												
90.000			.0007	-.1580	-.4226	-.4684	-.4906	-.4191	-.3591	-.2783	-.2513	-.2325	.0000	-.1970	-.2075
100.000						-.4684	-.4883	-.5018	-.5036	-.3432	-.2864	-.2762	-.2308	-.2577	-.1781
110.000						-.4960	-.5078	-.5198	-.5282	-.5110	-.3269	-.3002	.0000	-.2277	-.1743
120.000						-.4523								-.2196	
130.000						-.5792								-.2226	
140.000						-.6366								-.2582	
150.000						-.5854								-.3182	
160.000						-.5597								-.3668	
170.000						-.5269								-.3729	
180.000						-.4967	-.4214	-.3953	-.3899	-.3918	-.3783	-.3670	-.3617	-.3560	-.2968

X/L	.4900	.4680	.4907	.9090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1643	-.1651	-.1482	-.1526	-.1109	-.1560	-.1295	-.0822	-.0228	.0010	-.0058	-.0586	-.0906	-.1025	-.1396
100.000	.0000	-.1748	-.1646	-.1617	-.1551	-.1678	-.1530	-.0928	-.0226	-.0134	.0017	-.0475	-.0764	-.0760	-.1350
110.000	-.1651	.0000	-.1568	-.1697	-.1670	-.1692	-.1410	-.0878	-.0357	-.0115	-.0048	-.0479	-.0642	-.0688	-.1142
120.000						-.1553								-.0359	
130.000						-.0964								-.0208	
140.000						-.0551								-.0060	
150.000						-.0388								.0071	
160.000						-.0353								.0105	
170.000						-.0302								-.0001	
180.000	-.2197	-.1282	-.0827	-.0698	-.1497	-.0396	-.0468	-.0468	-.0456	-.0348	.0017	-.0165	-.0058	.0044	.0353

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0834		
70.000							-.1238	-.1491	.0000
60.000							-.1542	-.2115	-.2348
90.000	-.1980	-.1784	-.1984	-.1103	-.0976	.0000	-.1768	-.2427	-.2251
100.000	-.1917	-.1922	-.1986	.0000	-.0368	-.1180			
110.000	-.1407	-.1414	.0294	.0835	.0116	-.1129			
120.000						.0811			
130.000						.2291			
140.000						.2174			
150.000						.2553			
160.000						.2790			
170.000						.3409			
180.000	-.1373	.1208	.2090	.2872	.3197	.3578			

AMES 06-030 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (0) = 1.601 ALPHA (1) = -0.611

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3210	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3572	.3403	.1196												
70.000	.3975	.0000	.1991												
80.000	.4390	.3416	.2281												
90.000			.1853	-.0599	-.2395	-.2764	-.2809	-.0942	-.2973	-.3077	-.2613	-.1553	.0000	-.0776	-.0651
100.000						-.2747	-.2958	-.2946	-.2995	-.2976	-.2560	-.2208	-.1413	-.1252	-.0717
110.000						-.3982	-.3619	-.3316	-.3053	-.2693	-.3368	-.2128	.0000	-.1791	-.1150
120.000						-.2494								-.1635	
130.000						-.2650								-.2535	
140.000						-.2452								-.1201	
150.000						-.2384								-.1068	
160.000						-.1852								-.0911	
170.000						-.1510								-.0750	
180.000						-.1319	-.0575	-.0278	-.0281	-.0307	-.0252	-.0368	-.0479	-.0559	-.0621

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0319	-.0290	-.0134	-.0171	-.0301	-.0322	-.0241	-.0180	-.0007	.0227	.0454	.0394	.0213	.0113	.0171
100.000	.0000	-.0454	-.0326	-.0275	-.0290	-.0409	-.0446	-.0403	-.0215	-.0210	.0159	.0171	.0100	.0075	-.0088
110.000	-.0887	.0000	-.0708	-.0739	-.0705	-.0800	-.0739	-.0677	-.0522	-.0315	-.0140	-.0025	.0049	-.0017	-.0139
120.000						-.1040								-.0115	
130.000						-.0928								-.0271	
140.000						-.0890								-.0283	
150.000						-.0807								-.0243	
160.000						-.0794								-.0152	
170.000						-.0629								-.0211	
180.000	-.0895	-.0702	-.0518	-.0575	-.1225	-.0539	-.0804	-.0584	-.0507	-.0343	-.0719	-.0148	-.0135	-.0097	-.0024

X/L	.7290	.7470	.7670	.7895	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1732		
70.000							.1264	.0842	.0000
80.000							.0925	.0100	.0266
90.000	-.0113	.0073	.0839	.1054	.0943	.0000	.0500	-.0107	-.0374
100.000	-.0102	.0012	.0858	.1450	.1351	.0975			
110.000	-.0087	.0196	.1565	.1880	.1449	.0139			
120.000						.0079			
130.000						.2983			
140.000						.5125			
150.000						.5911			
160.000						.5241			
170.000						.4704			
180.000	-.0043	.0503	.3646	.4616	.5120	.6419			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.491 ALPHA (2) = -6.340

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

E/L	.0870	.1200	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
85.000	.3203	.3078	.0837												
70.000	.3568	.0000	.1754												
80.000	.3809	.3193	.2112												
90.000			.1840	-.0853	-.2848	-.3114	-.3179	-.1045	-.3013	-.3127	-.2773	-.2118	.0000	-.1082	-.0928
100.000						-.3108	-.3288	-.3310	-.3177	-.3112	-.2735	-.2363	-.1619	-.1463	-.0956
110.000						-.4007	-.3781	-.3627	-.3474	-.3008	-.3039	-.2220	.0000	-.1847	-.1258
120.000						-.2717								-.1785	
130.000						-.3046								-.2172	
140.000						-.2908								-.1634	
150.000						-.2515								-.1520	
160.000						-.2293								-.1360	
170.000						-.2064								-.1197	
180.000						-.1764	-.1089	-.0757	-.0738	-.0868	-.0753	-.0828	-.0949	-.1007	-.1020

E/L	.4900	.4680	.4880	.9081	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0899	-.0996	-.0434	-.0478	-.0814	-.0577	-.0491	-.0427	-.0256	-.0035	.0220	.0161	-.0048	-.0158	-.0071
100.000	.0000	-.0980	-.0847	-.0963	-.0532	-.0818	-.0635	-.0582	-.0402	-.0344	.0013	.0034	-.0050	-.0072	-.0233
110.000	-.0987	.0000	-.0881	-.0944	-.0800	-.0729	-.0828	-.0791	-.0697	-.0515	-.0327	-.0210	-.0130	-.0195	-.0338
120.000						-.0851								-.0210	
130.000						-.1046								-.0384	
140.000						-.1069								-.0445	
150.000						-.0923								-.0416	
160.000						-.0978								-.0392	
170.000						-.0893								-.0437	
180.000	-.1033	-.1021	-.0046	-.0870	-.1008	-.0803	-.0880	-.0890	-.0773	-.0629	-.0530	-.0417	-.0944	-.0369	-.0310

E/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1260		
70.000							.0882	.0351	.0000
80.000							.0506	-.0221	-.0119
90.000	-.0408	-.0284	.0418	.0884	.0581	.0000	.0130	-.0433	-.0207
100.000	-.0398	-.0081	.0498	.1165	.1051	.0626			
110.000	-.0302	.0220	.1203	.1550	.1200	-.0033			
120.000						.0135			
130.000						.2097			
140.000						.4708			
150.000						.5338			
160.000						.4659			
170.000						.4231			
180.000	-.0290	.0257	.3162	.4117	.4607	.5018			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RZB008)

MACH (8) = 1.400 ALPHA (3) = -4.253

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2855	.2752	.0738												
70.000	.3193	.0000	.1601												
80.000	.3266	.3007	.2000												
90.000			.1868	-.0390	-.2725	-.3178	-.3305	-.1483	-.3613	-.3250	-.2888	-.2318	.0000	-.1320	-.1094
100.000						-.3192	-.3416	-.3452	-.3604	-.3727	-.3115	-.2506	-.1697	-.1569	-.1099
110.000						-.3950	-.3831	-.3753	-.3674	-.3554	-.3126	-.2622	.0000	-.1777	-.1258
120.000						-.2865								-.2236	
130.000						-.3315								-.2195	
140.000						-.3255								-.1868	
150.000						-.2846								-.1777	
160.000						-.2638								-.1667	
170.000						-.2453								-.1531	
180.000						-.2151	-.1482	-.1166	-.1175	-.1267	-.1180	-.1217	-.1317	-.1399	-.1426

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0887	-.0819	-.0849	-.0856	-.0884	-.0710	-.0849	-.0548	-.0380	-.0132	.0059	-.0019	-.0205	-.0354	-.0330
100.000	.0000	-.0960	-.0843	-.0783	-.0741	-.0799	-.0791	-.0671	-.0503	-.0416	-.0070	-.0073	-.0185	-.0243	-.0372
110.000	-.1093	.0000	-.0968	-.0971	-.0930	-.0870	-.0894	-.0814	-.0733	-.0589	-.0418	-.0354	-.0258	-.0326	-.0437
120.000						-.0873								-.0280	
130.000						-.1115								-.0439	
140.000						-.1142								-.0541	
150.000						-.1010								-.0544	
160.000						-.1085								-.0527	
170.000						-.1072								-.0621	
180.000	-.1402	-.1326	-.1170	-.1205	-.0981	-.1054	-.1029	-.1032	-.0909	-.0796	-.0474	-.0614	-.0577	-.0521	-.0410

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0914		
70.000							.0562	.0100	.0000
80.000							.0219	-.0437	-.0419
90.000	-.0839	-.0437	.0072	.0438	.0376	.0000	-.0083	-.0646	-.0373
100.000	-.0833	-.0252	.0114	.0988	.0845	.0379			
110.000	-.0407	.0066	.1002	.1387	.1015	-.0134			
120.000						.0192			
130.000						.2845			
140.000						.4356			
150.000						.4800			
160.000						.4168			
170.000						.3845			
180.000	-.0402	.0049	.2843	.3741	.4161	.5334			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.401 ALPHA (4) = -2.037

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2510	.2252	.0585												
70.000	.2845	.0000	.1381												
80.000	.2851	.2681	.1840												
90.000			.1866	-.0587	-.2820	-.3274	-.3381	-.1824	-.3594	-.3772	-.3495	-.2715	.0000	-.1574	-.1262
100.000						-.3267	-.3473	-.3541	-.3678	-.3773	-.3661	-.3243	-.1994	-.1753	-.1214
110.000						-.3923	-.3821	-.3818	-.3770	-.3749	-.3405	-.3030	.0000	-.2103	-.1354
120.000						-.3015								-.2357	
130.000						-.3581								-.2278	
140.000						-.3621								-.2106	
150.000						-.3201								-.2057	
160.000						-.2999								-.1960	
170.000						-.2837								-.1842	
180.000						-.2523	-.1869	-.1575	-.1551	-.1626	-.1544	-.1534	-.1640	-.1699	-.1707

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1027	-.1011	-.0835	-.0822	-.1109	-.0824	-.0731	-.0641	-.0484	-.0272	-.0021	-.0158	-.0411	-.0478	-.0448
100.000	.0000	-.1062	-.1004	-.0935	-.0901	-.0932	-.0907	-.0794	-.0581	-.0523	-.0167	-.0167	-.0281	-.0338	-.0422
110.000	-.1132	.0000	-.1030	-.1070	-.0994	-.0973	-.0975	-.0860	-.0757	-.0593	-.0431	-.0331	-.0242	-.0350	-.0387
120.000						-.0927								-.0298	
130.000						-.1199								-.0381	
140.000						-.1284								-.0496	
150.000						-.1146								-.0544	
160.000						-.1279								-.0571	
170.000						-.1286								-.0660	
180.000	-.1736	-.1712	-.1464	-.1451	-.0994	-.1269	-.1291	-.1216	-.1090	-.0958	-.0443	-.0750	-.0677	-.0630	-.0502

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0566		
70.000							.0178	-.0184	.0000
80.000							-.0075	-.0663	-.0783
90.000	-.0829	-.0520	.0161	.0299	.0199	.0000	-.0329	-.0907	-.0639
100.000	-.0832	-.0371	.0087	.0881	.0629	.0123			
110.000	-.0414	.0055	.0958	.1357	.0998	-.0126			
120.000						.0281			
130.000						.2844			
140.000						.3969			
150.000						.4248			
160.000						.3726			
170.000						.3700			
180.000	-.0387	.0378	.2635	.3258	.3583	.4508			

AMES 66-656 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.399 ALPHA (9) = .052

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2260	.1784	.0293												
70.000	.2557	.0000	.1140												
80.000	.2548	.2227	.1667												
90.000			.1784	-.0599	-.2786	-.3264	-.3381	-.2159	-.3635	-.3859	-.3795	-.3717	.0000	-.2021	-.1433
100.000						-.3276	-.3445	-.3523	-.3674	-.3842	-.3834	-.3751	-.3101	-.2566	-.1394
110.000						-.3797	-.3740	-.3783	-.3795	-.3891	-.3657	-.3301	.0000	-.2935	-.1699
120.000						-.3130								-.2504	
130.000						-.3826								-.2411	
140.000						-.3953								-.2231	
150.000						-.3537								-.2189	
160.000						-.3355								-.2194	
170.000						-.3174								-.2091	
180.000						-.2844	-.2210	-.1918	-.1867	-.1935	-.1823	-.1846	-.1893	-.1965	-.1939

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5810	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1134	-.1030	-.0909	-.0897	-.1278	-.0904	-.0735	-.0598	-.0389	-.0183	-.0004	-.0202	-.0445	-.0602	-.0817
100.000	.0000	-.1092	-.1025	-.0964	-.0935	-.0968	-.0919	-.0750	-.0508	-.0406	-.0108	-.0216	-.0359	-.0429	-.0582
110.000	-.1253	.0000	-.1007	-.1031	-.0997	-.0974	-.0952	-.0800	-.0631	-.0432	-.0249	-.0234	-.0212	-.0300	-.0402
120.000						-.0976								-.0214	
130.000						-.1308								-.0224	
140.000						-.1473								-.0331	
150.000						-.1438								-.0427	
160.000						-.1635								-.0495	
170.000						-.1635								-.0642	
180.000	-.1942	-.1936	-.1745	-.1732	-.1013	-.1528	-.1542	-.1465	-.1258	-.1066	-.0384	-.0811	-.0717	-.0659	-.0440

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0230		
70.000							-.0125	-.0479	.0000
80.000							-.0379	-.0953	-.1081
90.000	-.0988	-.0546	-.0048	.0065	-.0040	.0000	-.0612	-.1165	-.0972
100.000	-.0969	-.0482	-.0112	.0806	.0460	-.0144			
110.000	-.0478	.0052	.0945	.1242	.0854	-.0174			
120.000						.0252			
130.000						.2764			
140.000						.3597			
150.000						.3650			
160.000						.3205			
170.000						.3269			
180.000	-.0380	.1349	.2446	.2830	.3058	.3782			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.401 ALPHA (6) = 2.169

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2043	.1612	.0148												
70.000	.2336	.0000	.0939												
80.000	.2337	.2014	.1556												
90.000			.1892	-.0442	-.2804	-.3291	-.3469	-.2440	-.3731	-.3941	-.3897	-.3933	.0000	-.2646	-.1599
100.000						-.3301	-.3491	-.3629	-.3768	-.3945	-.3977	-.4009	-.3477	-.3211	-.1614
110.000						-.3723	-.3741	-.3841	-.3868	-.4091	-.3816	-.3534	.0000	-.3180	-.2198
120.000						-.3088								-.2659	
130.000						-.3958								-.2509	
140.000						-.4206								-.2414	
150.000						-.3782								-.2412	
160.000						-.3602								-.2412	
170.000						-.3414								-.2319	
180.000						-.3069	-.2464	-.2206	-.2148	-.2223	-.2130	-.2104	-.2136	-.2194	-.2187

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1225	-.1105	-.0943	-.0938	-.1418	-.0791	-.0569	-.0440	-.0243	-.0117	-.0046	-.0304	-.0600	-.0764	-.0758
100.000	.0000	-.1157	-.1061	-.1025	-.0963	-.0977	-.0827	-.0666	-.0400	-.0410	-.0117	-.0286	-.0423	-.0571	-.0657
110.000	-.1410	.0000	-.1074	-.1064	-.1030	-.0989	-.0890	-.0714	-.0559	-.0405	-.0316	-.0337	-.0308	-.0443	-.0575
120.000						-.0976								-.0218	
130.000						-.1346								-.0217	
140.000						-.1548								-.0240	
150.000						-.1606								-.0283	
160.000						-.1877								-.0334	
170.000						-.1931								-.0473	
180.000	-.2196	-.2157	-.1954	-.1995	-.1008	-.1797	-.1744	-.1563	-.1336	-.1028	-.0342	-.0741	-.0627	-.0491	-.0128

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0082		
70.000							-.0434	-.0735	.0000
80.000							-.0715	-.1219	-.1363
90.000	-.1148	-.0893	-.0478	-.0147	-.0231	.0000	-.0905	-.1400	-.1227
100.000	-.1129	-.0765	-.0533	.0479	.0188	-.0339			
110.000	-.0606	-.0106	.0775	.1184	.0795	-.0241			
120.000						.0556			
130.000						.2510			
140.000						.3133			
150.000						.3032			
160.000						.2629			
170.000						.2766			
180.000	-.0489	.1712	.2115	.2273	.2562	.3133			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.400 ALPHA (7) = 4.305

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2004	.1473	-.0360												
70.000	.2185	.0000	.0563												
80.000	.2124	.1588	.1362												
90.000			.1606	-.0460	-.2824	-.3313	-.3540	-.2679	-.3777	-.4008	-.3981	-.4046	.0000	-.3125	-.1795
100.000						-.3304	-.3518	-.3679	-.3825	-.4000	-.4061	-.4193	-.3782	-.3619	-.1838
110.000						-.3664	-.3733	-.3844	-.3923	-.4188	-.3974	-.3799	.0000	-.3408	-.2431
120.000						-.3128								-.2823	
130.000						-.4133								-.2661	
140.000						-.4496								-.2609	
150.000						-.4061								-.2568	
160.000						-.3878								-.2523	
170.000						-.3645								-.2534	
180.000						-.3323	-.2730	-.2460	-.2430	-.2494	-.2377	-.2354	-.2377	-.2436	-.2379

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1307	-.1115	-.0937	-.0867	-.1457	-.0638	-.0514	-.0433	-.0314	-.0213	-.0140	-.0443	-.0775	-.0950	-.0926
100.000	.0000	-.1225	-.1089	-.0970	-.0862	-.0723	-.0663	-.0560	-.0388	-.0415	-.0183	-.0382	-.0519	-.0711	-.0807
110.000	-.1507	.0000	-.1128	-.1086	-.0970	-.0828	-.0818	-.0661	-.0568	-.0398	-.0309	-.0345	-.0360	-.0537	-.0687
120.000						-.0891								-.0289	
130.000						-.1258								-.0104	
140.000						-.1496								-.0107	
150.000						-.1573								-.0082	
160.000						-.1865								-.0085	
170.000						-.1996								-.0201	
180.000	-.2380	-.2333	-.2160	-.2152	-.0998	-.1936	-.1801	-.1525	-.1205	-.0876	-.0330	-.0542	-.0421	-.0218	.0465

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0310		
70.000							-.0701	-.0950	.0000
80.000							-.0992	-.1450	-.1632
90.000	-.1314	-.0852	-.0945	-.0881	-.0416	.0000	-.1077	-.1702	-.1512
100.000	-.1343	-.0967	-.1134	.0221	.0191	-.0402			
110.000	-.0812	-.0779	.0164	.0929	.0805	-.0451			
120.000						.0851			
130.000						.2139			
140.000						.2408			
150.000						.247-			
160.000						.2208			
170.000						.2440			
180.000	-.0714	.1142	.1655	.1874	.2174	.2561			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.400 ALPHA (8) = 6.493

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1743	.1223	-.0804												
70.000	.1890	.0000	.0144												
80.000	.1825	.1513	.0847												
90.000			.1622	-.0470	-.2901	-.3381	-.3600	-.2927	-.3790	-.4040	-.4005	-.4082	.0000	-.2755	-.1840
100.000						-.3359	-.3542	-.3709	-.3850	-.4008	-.4098	-.4271	-.3945	-.3624	-.1782
110.000						-.3616	-.3731	-.3851	-.3974	-.4222	-.4023	-.4043	.0000	-.3610	-.2095
120.000						-.3193								-.3015	
130.000						-.4263								-.2819	
140.000						-.4735								-.2816	
150.000						-.4304								-.2749	
160.000						-.4100								-.2734	
170.000						-.3881								-.2732	
180.000						-.3560	-.2963	-.2714	-.2697	-.2736	-.2639	-.2580	-.2616	-.2615	-.2543

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1383	-.1177	-.0872	-.0789	-.1450	-.0711	-.0621	-.0576	-.0457	-.0369	-.0255	-.0378	-.0868	-.1065	-.1086
100.000	.0000	-.1185	-.1019	-.0862	-.0759	-.0847	-.0813	-.0777	-.0556	-.0639	-.0308	-.0509	-.0631	-.0780	-.0982
110.000	-.1507	.0000	-.1100	-.1015	-.0899	-.0870	-.0844	-.0801	-.0707	-.0576	-.0469	-.0457	-.0446	-.0696	-.0891
120.000						-.0873								-.0330	
130.000						-.1137								-.0176	
140.000						-.1285								-.0057	
150.000						-.1311								-.0014	
160.000						-.1516								-.0019	
170.000						-.1642								-.0072	
180.000	-.2909	-.2469	-.2332	-.2255	-.0960	-.1783	-.1549	-.1172	-.0871	-.0656	-.0401	-.0404	-.0257	-.0032	.0525

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0552		
70.000							-.0888	-.1045	.0000
80.000							-.1259	-.1621	-.1797
90.000	-.1418	-.0913	-.1354	-.1084	-.0527	.0000	-.1221	-.1873	-.1693
100.000	-.1438	-.1227	-.1549	.0031	.0067	-.0579			
110.000	-.1051	-.0950	-.0130	.0916	.0724	-.0447			
120.000						.0868			
130.000						.2424			
140.000						.1926			
150.000						.2302			
160.000						.2192			
170.000						.2527			
180.000	-.0987	.0921	.1461	.1730	.2101	.2595			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.400 ALPHA (9) = 8.585

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1496	.0970	-.0889												
70.000	.1496	.0000	-.0284												
80.000	.1416	.1227	.0268												
90.000			.1264	-.0444	-.2947	-.3466	-.3646	-.3207	-.3847	-.4067	-.3994	-.3711	.0000	-.2356	-.1948
100.000						-.3442	-.3599	-.3752	-.3903	-.4055	-.4137	-.4281	-.3493	-.3006	-.1619
110.000						-.3585	-.3716	-.3892	-.4003	-.4278	-.4101	-.4253	.0000	-.3403	-.1800
120.000						-.3218								-.3182	
130.000						-.4385								-.2991	
140.000						-.4951								-.2988	
150.000						-.4529								-.2911	
160.000						-.4310								-.2920	
170.000						-.4098								-.2923	
180.000						-.3807	-.3239	-.2994	-.2952	-.2988	-.2886	-.2800	-.2815	-.2835	-.2722

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1315	-.1074	-.0847	-.0824	-.1514	-.0984	-.0929	-.0863	-.0804	-.0883	-.0520	-.0839	-.1061	-.1243	-.1190
100.000	.0000	-.1149	-.1008	-.0904	-.0889	-.1119	-.1124	-.1100	-.0898	-.0966	-.0611	-.0708	-.0818	-.0976	-.1150
110.000	-.1474	.0000	-.1029	-.1061	-.1062	-.1188	-.1210	-.1181	-.1083	-.0893	-.0720	-.0697	-.0664	-.0872	-.1098
120.000						-.1070								-.0498	
130.000						-.1047								-.0257	
140.000						-.0987								-.0086	
150.000						-.0883								-.0066	
160.000						-.0898								-.0063	
170.000						-.1012								-.0156	
180.000	-.2887	-.2594	-.2398	-.2210	-.1010	-.1187	-.0923	-.0683	-.0562	-.0481	-.0583	-.0320	-.0287	-.0177	.0144

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8820	.9000	.9400
PHI									
60.000							-.0872		
70.000							-.1297	-.1270	.0000
80.000							-.1471	-.1891	-.2027
90.000	-.1565	-.0968	-.1575	-.1592	-.0778	.0000	-.1319	-.2148	-.1915
100.000	-.1575	-.1340	-.1773	-.0265	-.0052	-.0675			
110.000	-.1202	-.1296	-.0537	.0770	.0625	-.0485			
120.000						.1301			
130.000						.2545			
140.000						.1767			
150.000						.2263			
160.000						.2452			
170.000						.2986			
180.000	-.1117	.0821	.1560	.1853	.2195	.2993			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB508)

MACH (9) = 1.498 ALPHA (1) = -8.571

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3703	.3690	.1847												
70.000	.3999	.0000	.2459												
80.000	.4238	.3774	.2798												
90.000			.2447	.0052	-.1927	-.2372	-.2434	-.0855	-.2668	-.2545	-.2122	-.1609	.0000	-.0589	-.0384
100.000						-.2380	-.2541	-.2585	-.2640	-.2705	-.2252	-.1754	-.1145	-.1018	-.0499
110.000						-.3296	-.3155	-.2914	-.2719	-.2465	-.2197	-.1713	.0000	-.1382	-.0912
120.000						-.1937								-.1366	
130.000						-.2153								-.2918	
140.000						-.2022								-.0958	
150.000						-.1681								-.0767	
160.000						-.1465								-.0573	
170.000						-.1261								-.0424	
180.000						-.1007	-.0336	-.0003	.0015	-.0080	.0027	-.0059	-.0172	-.0268	-.0358

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0080	-.0021	.0145	.0145	-.0005	.0047	.0052	.0063	.0163	.0401	.0650	.0647	.0486	.0361	.0308
100.000	.0000	-.0172	-.0051	.0048	.0078	-.0043	-.0095	-.0137	-.0002	-.0080	.0333	.0338	.0316	.0290	.0087
110.000	-.0829	.0000	-.0384	-.0363	-.0345	-.0229	-.0365	-.0342	-.0266	-.0122	.0045	.0158	.0251	.0180	.0051
120.000						-.1626								-.0008	
130.000						-.0576								-.0191	
140.000						-.0630								-.0145	
150.000						-.0349								-.0072	
160.000						-.0308								.0045	
170.000						-.0186								-.0004	
180.000	-.3435	-.0448	-.0163	-.0194	-.2132	-.0101	-.0202	-.0259	-.0246	-.0168	-.0041	.0029	.0057	.0108	.0170

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1730		
70.000							.1301	.0909	.0000
80.000							.0835	.0328	.0374
90.000	.0078	.0078	.0542	.1038	.1001	.0000	.0487	-.0022	-.0658
100.000	.0085	.0136	.0535	.1391	.1372	.1166			
110.000	-.0027	.0308	.1301	.1846	.1676	.0521			
120.000						.0868			
130.000						.3266			
140.000						.5244			
150.000						.5887			
160.000						.5151			
170.000						.4554			
180.000	-.0033	.0207	.2966	.4399	.4950	.6430			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.501 ALPHA (2) = -6.395

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.26)	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3376	.3298	.1406												
70.000	.3680	.0000	.2287												
80.000	.3720	.3534	.2657												
90.000			.2489	.0096	-.1971	-.2424	-.2544	-.0744	-.2846	-.3088	-.2871	-.2002	.0000	-.0945	-.0698
100.000						-.2433	-.2642	-.2674	-.2811	-.2943	-.2811	-.2610	-.1555	-.1244	-.0757
110.000						-.3230	-.3127	-.3005	-.2883	-.2759	-.2647	-.2254	.0000	-.1968	-.1048
120.000						-.2075								-.1605	
130.000						-.2433								-.2231	
140.000						-.2367								-.1199	
150.000						-.2013								-.1096	
160.000						-.1821								-.0932	
170.000						-.1637								-.0792	
180.000						-.1368	-.0783	-.0422	-.0412	-.0512	-.0410	-.0476	-.0568	-.0669	-.0741

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0429	-.0361	-.0185	-.0181	-.0335	-.0250	-.0180	-.0179	-.0019	.0192	.0455	.0427	.0286	.0141	.0079
100.000	.0000	-.0467	-.0336	-.0256	-.0210	-.0256	-.0289	-.0267	-.0132	-.0099	.0266	.0300	.0247	.0197	.0009
110.000	-.0817	.0000	-.0608	-.0634	-.0584	-.0463	-.0568	-.0559	-.0457	-.0324	-.0146	-.0063	.0064	.0007	-.0138
120.000						-.0907								-.0117	
130.000						-.0748								-.0305	
140.000						-.0857								-.0304	
150.000						-.0818								-.0275	
160.000						-.0732								-.0223	
170.000						-.0574								-.0276	
180.000	-.0815	-.0801	-.0627	-.0634	-.1320	-.0426	-.0511	-.0543	-.0542	-.0454	-.0258	-.0257	-.0229	-.0172	-.0099

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1195		
70.000							.0802	.0497	.0000
80.000							.0459	-.0062	-.0083
90.000	-.0139	-.0152	.0232	.0755	.0741	.0000	.0195	-.0395	-.0214
100.000	-.0152	-.0029	.0266	.1202	.1178	.0867			
110.000	-.0169	.0083	.1032	.1651	.1505	.0393			
120.000						.0611			
130.000						.3147			
140.000						.4774			
150.000						.5285			
160.000						.4593			
170.000						.4130			
180.000	-.0231	-.0007	.2568	.3944	.4452	.5850			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.499 ALPHA (3) = -4.259

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3183	.2822	.1176												
70.000	.3467	.0000	.2036												
80.000	.3428	.3160	.2464												
90.000			.2464	.0086	-.2070	-.2538	-.2647	-.1089	-.2964	-.3201	-.3096	-.2759	.0000	-.1223	-.0894
100.000						-.2548	-.2740	-.2799	-.2937	-.3119	-.3044	-.2921	-.2143	-.1699	-.0939
110.000						-.3238	-.3153	-.3086	-.3041	-.2988	-.2914	-.2470	.0000	-.2338	-.1362
120.000						-.2265								-.1794	
130.000						-.2743								-.2061	
140.000						-.2748								-.1430	
150.000						-.2382								-.1346	
160.000						-.2209								-.1224	
170.000						-.2050								-.1094	
180.000						-.1762	-.1139	-.0815	-.0785	-.0875	-.0775	-.0792	-.0897	-.0959	-.1040

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0840	-.0585	-.0426	-.0438	-.0625	- 0463	-.0384	-.0343	-.0174	.0052	.0290	.0269	.0116	-.0026	-.0076
100.000	.0000	-.0875	-.0574	-.0522	-.0473	-.0479	-.0485	-.0455	-.0285	-.0176	.0153	.0221	.0157	.0075	-.0091
110.000	-.0925	.0000	-.0710	-.0736	-.0678	-.0616	-.0749	-.0662	-.0608	-.0468	-.0314	-.0203	-.0068	-.0093	-.0253
120.000						-.0734								-.0125	
130.000						-.0922								-.0333	
140.000						-.1088								-.0431	
150.000						-.1077								-.0441	
160.000						-.1073								-.0415	
170.000						-.0914								-.0472	
180.000	-.1081	-.1129	-.0880	-.0957	-.1015	-.0751	-.0803	-.0833	-.0829	-.0677	-.0446	-.0489	-.0454	-.0395	-.0319

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0739		
70.000							.0385	.0150	.0000
80.000							.0125	-.0387	-.0414
90.000	-.0372	-.0320	-.0115	.0415	.0470	.0000	-.0051	-.0680	-.0361
100.000	-.0339	-.0242	-.0015	.0880	.0870	.0574			
110.000	-.0294	-.0112	.0745	.1455	.1332	.0233			
120.000						.0527			
130.000						.3043			
140.000						.4332			
150.000						.4677			
160.000						.4065			
170.000						.3749			
180.000	-.0353	-.0172	.2425	.3545	.4006	.5219			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.501 ALPHA (4) = -2.151

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2865	.2424	.0873												
70.000	.3128	.0000	.1676												
60.000	.3060	.2598	.2275												
90.000			.2376	.0083	-.2114	-.2803	-.2735	-.1423	-.3054	-.3278	-.3204	-.3055	.0000	-.1991	-.1095
100.000						-.2598	-.2820	-.2890	-.3055	-.3227	-.3236	-.3144	-.2578	-.2418	-.1296
110.000						-.3168	-.3152	-.3149	-.3131	-.3201	-.3131	-.2708	.0000	-.2462	-.1918
120.000						-.2379								-.1936	
130.000						-.2949								-.1986	
140.000						-.3031								-.1631	
150.000						-.2662								-.1560	
160.000						-.2515								-.1503	
170.000						-.2359								-.1389	
180.000						-.2080	-.1496	-.1172	-.1132	-.1206	-.1129	-.1154	-.1218	-.1275	-.1332

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0808	-.0705	-.0543	-.0533	-.0846	-.0580	-.0557	-.0498	-.0302	-.0025	.0191	.0137	-.0090	-.0193	-.0248
100.000	.0000	-.0776	-.0867	-.0809	-.0577	-.0620	-.0630	-.0573	-.0396	-.0277	.0048	.0080	.0019	-.0054	-.0231
110.000	-.1214	.0000	-.0753	-.0737	-.0886	-.0681	-.0693	-.0871	-.0619	-.0472	-.0323	-.0188	-.0041	-.0095	-.0259
120.000						-.0705								-.0150	
130.000						-.1058								-.0315	
140.000						-.1378								-.0429	
150.000						-.1362								-.0497	
160.000						-.1341								-.0495	
170.000						-.1202								-.0568	
180.000	-.1360	-.1330	-.1160	-.1179	-.0886	-.1076	-.1077	-.1077	-.1015	-.0895	-.0497	-.0640	-.0585	-.0534	-.0439

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0428		
70.000							.0075	-.0087	.0000
60.000							-.0089	-.0588	-.0655
90.000	-.0575	-.0386	-.0270	.0262	.0344	.0000	-.0265	-.0848	-.0586
100.000	-.0569	-.0401	-.0252	.0756	.0658	.0301			
110.000	-.0727	-.0187	.0677	.1364	.1283	.0228			
120.000						.0580			
130.000						.3039			
140.000						.3964			
150.000						.4185			
160.000						.3668			
170.000						.3618			
180.000	-.0327	-.0087	.2334	.3149	.3530	.4554			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (8) = 1.501 ALPHA (5) = -.027

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2490	.2090	.0440												
90.000	.2823	.0000	.1213												
95.000	.2787	.2371	.1982												
98.000			.2224	.0051	-.2197	-.2650	-.2732	-.1746	-.2916	-.3195	-.3136	-.3176	.0000	-.2765	-.1738
100.000						-.2640	-.2842	-.2883	-.3018	-.3190	-.3220	-.3196	-.2781	-.2707	-.2255
110.000						-.3169	-.3153	-.3180	-.3156	-.3275	-.3185	-.2804	.0000	-.2529	-.2362
120.000						-.2468								-.2030	
130.000						-.3143								-.2014	
140.000						-.3310								-.1826	
150.000						-.2944								-.1824	
160.000						-.2737								-.1750	
170.000						-.2678								-.1657	
180.000						-.2396	-.1608	-.1501	-.1473	-.1499	-.1423	-.1431	-.1482	-.1529	-.1550

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1078	-.0883	-.0708	-.0858	-.0963	-.0663	-.0598	-.0523	-.0331	-.0096	.0117	.0022	-.0185	-.0286	-.0329
100.000	.0000	-.0977	-.0793	-.0702	-.0844	-.0874	-.0864	-.0611	-.0429	-.0287	-.0015	.0020	-.0066	-.0146	-.0318
110.000	-.2036	.0000	-.0883	-.0772	-.0684	-.0690	-.0671	-.0651	-.0570	-.0396	-.0208	-.0125	-.0066	-.0118	-.0242
120.000						-.0898								-.0175	
130.000						-.1230								-.0279	
140.000						-.1630								-.0422	
150.000						-.1529								-.0507	
160.000						-.1514								-.0559	
170.000						-.1412								-.0668	
180.000	-.1574	-.1531	-.1329	-.1383	-.0804	-.1324	-.1357	-.1310	-.1227	-.1082	-.0557	-.0824	-.0697	-.0634	-.0469

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0153		
90.000							-.0191	-.0374	.0000
95.000							-.0351	-.0814	-.0960
98.000	-.0868	-.0379	-.0482	.0096	.0215	.0000	-.0476	-.1032	-.0825
100.000	-.0881	-.0468	-.0404	.0738	.0657	.0067			
110.000	-.0293	-.0091	.0639	.1174	.1097	.0207			
120.000						.0648			
130.000						.2990			
140.000						.3653			
150.000						.3639			
160.000						.3242			
170.000						.3254			
180.000	-.0282	.0654	.2249	.2719	.2998	.3721			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.950 ALPHA (8) = 2.162

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2292	.1639	.0230												
70.000	.2483	.0000	.0693												
80.000	.2490	.2110	.1639												
90.000			.2128	.0096	-.2129	-.2810	-.2782	-.2000	-.3051	-.3280	-.3236	-.3330	.0000	-.3058	-.2424
100.000						-.2620	-.2809	-.2929	-.3006	-.3255	-.3328	-.3407	-.3057	-.2994	-.2660
110.000						-.3017	-.3058	-.3135	-.3178	-.3400	-.3276	-.3066	.0000	-.2748	-.2557
120.000						-.2455								-.2192	
130.000						-.3278								-.2095	
140.000						-.3551								-.1968	
150.000						-.3192								-.1967	
160.000						-.3056								-.1964	
170.000						-.2904								-.1858	
180.000						-.2617	-.2058	-.1778	-.1710	-.1771	-.1680	-.1691	-.1721	-.1755	-.1708

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1423	-.1108	-.0881	-.0779	-.1147	-.0705	-.0605	-.0479	-.0255	-.0024	.0152	.0028	-.0185	-.0376	-.0437
100.000	.0000	-.1193	-.0896	-.0782	-.0713	-.0739	-.0710	-.0626	-.0411	-.0278	-.0014	-.0032	-.0152	-.0214	-.0476
110.000	-.2370	.0000	-.1049	-.0887	-.0789	-.0739	-.0746	-.0650	-.0541	-.0349	-.0175	-.0104	-.0071	-.0172	-.0368
120.000						-.0723								-.0186	
130.000						-.1371								-.0243	
140.000						-.1754								-.0347	
150.000						-.1722								-.0437	
160.000						-.1723								-.0524	
170.000						-.1626								-.0661	
180.000	-.1734	-.1673	-.1535	-.1583	-.0779	-.1575	-.1613	-.1551	-.1449	-.1291	-.0471	-.0926	-.0770	-.0684	-.0409

X/L	.7290	.7470	.7670	.7850	.8030	.8250	.8620	.9000	.9400
PHI									
60.000							-.0095		
70.000							-.0407	-.0813	.0000
80.000							-.0705	-.1049	-.1171
90.000	-.0791	-.0420	-.0739	-.0147	-.0061	.0000	-.0703	-.1288	-.1046
100.000	-.0787	-.0660	-.0697	.0824	.0175	-.0077			
110.000	-.0407	-.0184	.0681	.1118	.0839	.0031			
120.000						.0876			
130.000						.2906			
140.000						.3234			
150.000						.3119			
160.000						.2755			
170.000						.2895			
180.000	-.0387	.1229	.2001	.2271	.2529	.2978			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.991 ALPHA (7) = 4.228

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.2071	.1757	.0021												
70.000	.2207	.0000	.0623												
60.000	.2111	.1742	.1232												
90.000			.2031	.0129	-.2139	-.2628	-.2841	-.2227	-.3100	-.3333	-.3318	-.3397	.0000	-.3228	-.2790
100.000						-.2635	-.2818	-.2980	-.3148	-.3315	-.3398	-.3552	-.3264	-.3212	-.2855
110.000						-.2928	-.3020	-.3151	-.3242	-.3479	-.3325	-.3280	.0000	-.2980	-.2675
120.000						-.2453								-.2355	
130.000						-.3409								-.2206	
140.000						-.3764								-.2136	
150.000						-.3395								-.2065	
160.000						-.3230								-.2067	
170.000						-.3100								-.2027	
180.000						-.2807	-.2257	-.1687	-.1953	-.2000	-.1915	-.1884	-.1906	-.1921	-.1884

X/L	.4900	.4680	.4860	.9090	.9240	.5460	.5610	.5806	.5960	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1672	-.1210	-.0834	-.0615	-.1281	-.0687	-.0572	-.0366	-.0178	-.0007	.0190	.0001	-.0253	-.0506	-.0991
100.000	.0000	-.1335	-.1021	-.0859	-.0777	-.0780	-.0717	-.0561	-.0283	-.0195	.0079	.0035	-.0147	-.0301	-.0591
110.000	-.2482	.0000	-.1125	-.0925	-.0822	-.0782	-.0737	-.0634	-.0485	-.0298	-.0161	-.0131	-.0118	-.0243	-.0521
120.000						-.0761								-.0238	
130.000						-.1365								-.0309	
140.000						-.1772								-.0246	
150.000						-.1826								-.0283	
160.000						-.1856								-.0366	
170.000						-.1761								-.0526	
180.000	-.1869	-.1868	-.1724	-.1766	-.0785	-.1744	-.1741	-.1658	-.1531	-.1336	-.0335	-.0918	-.0739	-.0552	-.0845

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0325		
70.000							-.0734	-.0797	.0000
60.000							-.0911	-.1301	-.1393
90.000	-.0691	-.0724	-.1074	-.0453	-.0177	.0000	-.0840	-.1530	-.1306
100.000	-.0845	-.0820	-.1088	.0343	.0320	-.0191			
110.000	-.0963	-.0355	.0372	.0869	.0818	-.0023			
120.000						.1191			
130.000						.2310			
140.000						.2851			
150.000						.2681			
160.000						.2752			
170.000						.2604			
180.000	-.0904	.1129	.1671	.1878	.2169	.2597			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.501 ALPHA (8) = 6.384

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1804	.1469	-.0205												
70.000	.1808	.0000	.0304												
80.000	.1758	.1646	.0772												
90.000			.1678	.0164	-.2194	-.2693	-.2886	-.2459	-.3143	-.3365	-.3350	-.3423	.0000	-.3306	-.2579
100.000						-.2711	-.2856	-.3008	-.3180	-.3356	-.3435	-.3608	-.3420	-.3444	-.2899
110.000						-.2878	-.3006	-.3170	-.3271	-.3535	-.3370	-.3500	.0000	-.3197	-.2796
120.000						-.2503								-.2494	
130.000						-.3549								-.2340	
140.000						-.4014								-.2236	
150.000						-.3625								-.2202	
160.000						-.3472								-.2218	
170.000						-.3354								-.2218	
180.000						-.3058	-.2503	-.2252	-.2179	-.2216	-.2127	-.2095	-.2093	-.2125	-.2077

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1659	-.1249	-.0888	-.0774	-.1387	-.0707	-.0543	-.0404	-.0239	-.0092	.0107	-.0136	-.0431	-.0657	-.0829
100.000	.0000	-.1167	-.0946	-.0813	-.0745	-.0829	-.0762	-.0660	-.0362	-.0421	-.0045	-.0107	-.0323	-.0427	-.0879
110.000	-.2299	.0000	-.1023	-.0899	-.0829	-.0833	-.0779	-.0674	-.0525	-.0435	-.0297	-.0287	-.0240	-.0392	-.0804
120.000						-.0805								-.0281	
130.000						-.1185								-.0115	
140.000						-.1445								-.0099	
150.000						-.1633								-.0120	
160.000						-.1859								-.0177	
170.000						-.1853								.0291	
180.000	-.2100	-.2048	-.1894	-.1917	-.0824	-.1789	-.1726	-.1571	-.1303	-.1020	-.0307	-.0661	-.0465	-.0328	.0161

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0638		
70.000							-.1072	-.1016	.0000
80.000							-.1069	-.1557	-.1627
90.000	-.1159	-.0896	-.1490	-.1415	-.0606	.0000	-.0825	-.1688	-.1518
100.000	-.1145	-.1144	-.1483	-.0382	.0258	-.0083			
110.000	-.0734	-.0747	-.0312	.0815	.1046	.0175			
120.000						.1345			
130.000						.2372			
140.000						.2106			
150.000						.2404			
160.000						.2208			
170.000						.2482			
180.000	-.0878	.1248	.1544	.1808	.2148	.2604			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB008)

MACH (9) = 1.501 ALPHA (9) = 8.543

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1787	.1335	-.0392												
70.000	.1706	.0000	.0101												
80.000	.1631	.1493	.0548												
90.000			.1077	.0101	-.2271	-.2758	-.2962	-.2605	-.3204	-.3439	-.3409	-.3450	.0000	-.3180	-.2201
100.000						-.2783	-.2907	-.3078	-.3230	-.3400	-.3499	-.3687	-.3497	-.3527	-.2365
110.000						-.2883	-.3002	-.3182	-.3320	-.3601	-.3444	-.3636	.0000	-.3428	-.2776
120.000						-.2560								-.2633	
130.000						-.3656								-.2474	
140.000						-.4209								-.2424	
150.000						-.3851								-.2354	
160.000						-.3646								-.2346	
170.000						-.3486								-.2395	
180.000						-.3219	-.2661	-.2415	-.2376	-.2415	-.2311	-.2259	-.2310	-.2314	-.2259

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1504	-.1216	-.0808	-.0708	-.1419	-.0673	-.0559	-.0507	-.0411	-.0284	-.0113	-.0373	-.0630	-.0877	-.1108
100.000	.0000	-.1190	-.0920	-.0773	-.0651	-.0765	-.0733	-.0710	-.0476	-.0612	-.0273	-.0375	-.0591	-.0666	-.1127
110.000	-.1639	.0000	-.1015	-.0936	-.0835	-.0835	-.0803	-.0765	-.0716	-.0643	-.0542	-.0520	-.0525	-.0663	-.1047
120.000						-.0822								-.0399	
130.000						-.1038								-.0157	
140.000						-.1259								-.0050	
150.000						-.1323								-.0045	
160.000						-.1571								-.0066	
170.000						-.1740								-.0177	
180.000	-.2243	-.2190	-.2042	-.2018	-.0817	-.1752	-.1636	-.1276	-.0976	-.0725	-.0419	-.0396	-.0315	-.0243	.0156

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0923		
70.000							-.1342	-.1279	.0000
80.000							-.1212	-.1800	-.1808
90.000	-.1322	-.0918	-.1725	-.1747	-.0834	.0000	-.1038	-.1786	-.1722
100.000	-.1328	-.1320	-.1700	-.0694	.0040	-.0357			
110.000	-.1001	-.1086	-.0741	.0686	.0783	-.0011			
120.000						.1586			
130.000						.2618			
140.000						.1657			
150.000						.2353			
160.000						.2361			
170.000						.2720			
180.000	-.0926	.0699	.1417	.1681	.1991	.2500			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (PEB009) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.500

MACH (1) = 1.751 ALPHA (1) = -8.368

SECTION (1)OF8. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4599	.4372	.2847												
70.000	.4900	.4552	.3597												
80.000	.4979	.4586	.4206												
90.000			.4637	.2261	.0275	-.0467	-.0575	-.0755	-.1093	-.1136	-.1111	-.1082	-.0896	-.0811	-.0477
100.000						-.0462	-.0639	-.0758	-.0925	-.1136	-.1170	-.1139	-.0883	-.0806	.0565
110.000						-.0931	-.0961	-.1067	-.1039	-.1157	-.1085	-.0934	-.0737	-.0744	-.0462
120.000						-.0111								.0000	
130.000						-.0787								.0182	
140.000						-.1078								.0278	
150.000						-.0799								.0360	
160.000						-.0673								.0348	
170.000						-.0640								.0415	
180.000						-.0650	-.0052	.0335	.0430	.0587	.0644	.0572	.0515	.0466	.0358

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0218	.0487	.0727	.0729	.0796	.0747	.0769	.0777	.0803	.0922	.1071	.1097	.0986	.0859	.0680
100.000	-.0167	.0291	.0559	.0662	.0698	.0657	.0658	.0643	.0733	.0687	.0916	.0952	.0994	.0960	.0744
110.000	.0000	-.0069	.0319	.0544	.0577	.0538	.0537	.0557	.0581	.0606	.0671	.0746	.0831	.0883	.0742
120.000						.0280								.0588	
130.000						.0013								.0482	
140.000						-.0068								.0410	
150.000						.0078								.0317	
160.000						.0081								.0206	
170.000						.0081								.0086	
180.000	.0252	.0185	.0180	.0154	.0108	.0060	-.0037	.0167	-.0121	-.0141	-.0011	-.0058	.0028	.0044	.1207

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1384		
70.000							.1209	.1108	.0000
80.000							.1096	.0891	.0543
90.000	.0980	.0380	.0375	.0661	.1342	.0000	.1106	.0462	.0275
100.000	.0831	.0388	.0378	.1211	.1804	.1774			
110.000	.0599	.0496	.0840	.2114	.2423	.1787			
120.000						.2563			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.751 ALPHA (1) = -8.368

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.4675			
140.000						.4390			
150.000						.4434			
160.000						.4798			
170.000						.5024			
180.000	.0624	.0513	.1138	.3641	.4254	.5486			

MACH (1) = 1.748 ALPHA (2) = -6.278

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4289	.4057	.2475												
70.000	.4596	.4181	.3037												
80.000	.4634	.4317	.3611												
90.000			.4286	.2153	.0463	-.0569	-.0708	-.0872	-.1199	-.1248	-.1227	-.1256	-.1097	-.0987	-.0882
100.000						-.0577	-.0736	-.0857	-.1060	-.1235	-.1292	-.1320	-.1064	-.1041	-.0802
110.000						-.0968	-.1045	-.1142	-.1137	-.1307	-.1268	-.1105	-.0895	-.0908	-.0677
120.000						-.0224								.0000	
130.000						-.1001								-.0107	
140.000						-.1382								-.0005	
150.000						-.1112								.0039	
160.000						-.0973								.0031	
170.000						-.0940								.0029	
180.000						-.0970	-.0291	.0105	.0247	.0306	.0329	.0234	.0182	.0113	-.0059

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0359	.0123	.0430	.0435	.0474	.0404	.0436	.0436	.0477	.0583	.0745	.0781	.0683	.0608	.0413
100.000	-.0815	-.0317	.0185	.0363	.0430	.0358	.0330	.0314	.0430	.0317	.0598	.0660	.0706	.0706	.0481
110.000	.0000	-.0499	-.0205	.0180	.0332	.0301	.0314	.0312	.0314	.0356	.0407	.0523	.0619	.0650	.0494
120.000						-.0018								.0358	
130.000						-.0308								.0232	
140.000						-.0366								.0157	
150.000						-.0217								.0086	
160.000						-.0238								-.0021	
170.000						-.0217								-.0141	
180.000	-.0153	-.0189	-.0179	-.0217	-.0248	-.0259	-.0366	.0073	-.0379	-.0373	-.0282	-.0279	-.0232	-.0193	.0874

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.748 ALPHA (2) = -6.278

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1021		
70.000							.0879	.0763	.0000
80.000							.0766	.0432	.0258
90.000	.0853	.0159	.0085	.0336	.0973	.0000	.0800	.0236	.0036
100.000	.0447	.0135	.0093	.0928	.1545	.1436			
110.000	.0381	.0265	.0560	.1768	.2104	.1574			
120.000						.2453			
130.000						.4439			
140.000						.3837			
150.000						.3881			
160.000						.4124			
170.000						.4345			
180.000	.0395	.0292	.0683	.3188	.3818	.4876			

MACH (1) = 1.748 ALPHA (3) = -4.133

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4068	.3787	.2183												
70.000	.4313	.3898	.2695												
80.000	.4300	.4032	.3128												
90.000			.3862	.2085	-.0008	-.0674	-.0821	-.0978	-.1294	-.1340	-.1338	-.1374	-.1288	-.1222	-.1140
100.000						-.0654	-.0818	-.0960	-.1165	-.1351	-.1415	-.1487	-.1278	-.1204	-.1035
110.000						-.0960	-.1081	-.1201	-.1230	-.1474	-.1456	-.1288	-.1117	-.1109	-.0912
120.000						-.0332								.0000	
130.000						-.1176								-.0402	
140.000						-.1660								-.0259	
150.000						-.1374								-.0287	
160.000						-.1243								-.0279	
170.000						-.1235								-.0259	
180.000						-.1204	-.0659	-.0162	-.0006	.0010	.0048	-.0061	-.0130	-.0230	-.0330

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0807	-.0333	.0123	.0161	.0213	.0141	.0188	.0195	.0193	.0260	.0484	.0525	.0409	.0342	.0181
100.000	-.0886	-.0735	-.0210	.0103	.0169	.0121	.0125	.0099	.0195	.0122	.0324	.0414	.0458	.0466	.0245
110.000	.0000	-.0786	-.0610	-.0202	.0056	.0072	.0112	.0125	.0078	.0130	.0177	.0273	.0399	.0427	.0272
120.000						-.0325								.0125	
130.000						-.0577								.0021	
140.000						-.0587								-.0102	
150.000						-.0509								-.0172	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.748 ALPHA (3) = -4.133

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0488								-.0284	
170.000						-.0488								-.0376	
180.000	-.0451	-.0505	-.0471	-.0461	-.0507	-.0527	-.0582	-.0102	-.0598	-.0587	-.0524	-.0514	-.0480	-.0436	.0655

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0709		
70.000							.0576	.0451	.0000
80.000							.0478	.0127	.0003
90.000	.0623	-.0110	-.0140	.0092	.0731	.0000	.0510	-.0002	-.0220
100.000	.0233	-.0103	-.0093	.0643	.1230	.1106			
110.000	.0159	-.0026	.0282	.1480	.1727	.1330			
120.000						.2457			
130.000						.4190			
140.000						.3296			
150.000						.3306			
160.000						.3466			
170.000						.3723			
180.000	.0149	.0028	.0643	.2813	.3328	.4295			

MACH (1) = 1.748 ALPHA (4) = -2.119

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.319.	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3812	.3447	.1884												
70.000	.4010	.3593	.2350												
80.000	.3969	.3712	.2726												
90.000			.3230	.1995	-.0201	-.0785	-.0926	-.1086	-.1374	-.1428	-.1430	-.1482	-.1443	-.1414	-.1317
100.000						-.0772	-.0911	-.1050	-.1237	-.1420	-.1497	-.1615	-.1463	-.1419	-.1250
110.000						-.0985	-.1091	-.1240	-.1322	-.1559	-.1608	-.1481	-.1337	-.1348	-.1150
120.000						-.0445								.0000	
130.000						-.1338								-.0723	
140.000						-.1891								-.0617	
150.000						-.1613								-.0592	
160.000						-.1412								-.0597	
170.000						-.1428								-.0594	
180.000						-.1423	-.0818	-.0443	-.0294	-.0278	-.0276	-.0348	-.0456	-.0528	-.0669

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (RE8009)

MACH (1) = 1.748 ALPHA (4) = -2.119

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1066	-.0845	-.0535	-.0082	-.0028	-.0087	-.0005	-.0024	.0003	.0089	.0314	.0360	.0242	.0177	-.0049
100.000	-.1768	-.0994	-.0730	-.0269	-.0016	-.0082	-.0060	-.0112	.0003	-.0073	.0141	.0229	.0285	.0257	.0025
110.000	.0000	-.0930	-.0822	-.0604	-.0284	-.0090	-.0089	-.0091	-.0094	-.0065	-.0018	.0112	.0247	.0252	.0085
120.000						-.0568								-.0021	
130.000						-.0778								-.0162	
140.000						-.0801								-.0274	
150.000						-.0723								-.0362	
160.000						-.0733								-.0477	
170.000						-.0718								-.0576	
180.000	-.0745	-.0750	-.0727	-.0738	-.0730	-.0772	-.0801	-.0240	-.0801	-.0830	-.0730	-.0756	-.0681	-.0621	.0340

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0404		
70.000							.0321	.0195	.0000
80.000							.0237	-.0084	-.0242
90.000	.0357	-.0276	-.0407	-.0291	.0394	.0000	.0338	-.0212	-.0459
100.000	.0015	-.0271	-.0407	.0237	.1001	.0956			
110.000	-.0042	-.0237	.0035	.1180	.1541	.1185			
120.000						.2392			
130.000						.3872			
140.000						.2832			
150.000						.2763			
160.000						.2964			
170.000						.3190			
180.000	-.0079	-.0170	.0731	.2464	.2984	.3759			

MACH (1) = 1.749 ALPHA (5) = -.045

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3528	.3111	.1617												
70.000	.3870	.3199	.2032												
80.000	.3606	.3302	.2393												
90.000			.2815	.1803	-.0095	-.0877	-.1023	-.1167	-.1381	-.1324	-.1306	-.1383	-.1368	-.1389	-.1473
100.000						-.0890	-.1003	-.1139	-.1304	-.1453	-.1445	-.1530	-.1435	-.1507	-.1378
110.000						-.1026	-.1129	-.1263	-.1358	-.1628	-.1705	-.1555	-.1399	-.1407	-.1266
120.000						-.0478								.0000	
130.000						-.1443								-.1020	
140.000						-.2060								-.0984	
150.000						-.1775								-.0879	

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.749 ALPHA (5) = -.045

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1597								-.0871	
170.000						-.1584								-.0873	
180.000						-.1595	-.1047	-.0702	-.0612	-.0632	-.0640	-.0704	-.0786	-.0868	-.0945

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1330	-.1273	-.1063	-.0822	-.0422	-.0278	-.0221	-.0179	-.0132	0072	.0150	.0170	.0053	-.0049	-.0217
100.000	-.1299	-.1329	-.1214	-.1001	-.0696	-.0386	-.0276	-.0229	-.0153	-.0182	-.0007	.0097	.0126	.0074	-.0167
110.000	.0000	-.1145	-.1086	-.1057	-.0968	-.0647	-.0349	-.0245	-.0231	-.0198	-.0130	-.0054	.0069	.0063	-.0150
120.000						-.0896								-.0252	
130.000						-.0936								-.0365	
140.000						-.0939								-.0443	
150.000						-.0866								-.0563	
160.000						-.0866								-.0659	
170.000						-.0900								-.0777	
180.000	-.1018	-.1022	-.0955	-.0950	-.0919	-.0905	-.0928	-.0331	-.0947	-.0962	-.0926	-.0926	-.0876	-.0826	.0120

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0174		
70.000							.0083	-.0009	.0000
80.000							.0080	-.0296	-.0484
90.000	.0144	-.0345	-.0575	-.0573	.0097	.0000	.0174	-.0405	-.0645
100.000	-.0234	-.0407	-.0588	-.0150	.0744	.0776			
110.000	-.0301	-.0407	-.0308	.0756	.1380	.1031			
120.000						.2438			
130.000						.3597			
140.000						.2352			
150.000						.2259			
160.000						.2475			
170.000						.2652			
180.000	-.0311	-.0373	.0866	.2156	.2593	.3266			

AMES 64-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.750 ALPHA (6) = 2.148

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3303	.2765	.1389												
70.000	.3329	.2878	.1742												
80.000	.3223	.2932	.2057												
90.000			.2484	.1572	-.0238	-.0737	-.0875	-.1035	-.1279	-.1348	-.1402	-.1523	-.1549	-.1575	-.1706
100.000						-.0719	-.0850	-.1025	-.1189	-.1356	-.1480	-.1678	-.1670	-.1754	-.1693
110.000						-.1002	-.1045	-.1148	-.1277	-.1559	-.1690	-.1708	-.1688	-.1757	-.1611
120.000						-.0529								.0000	
130.000						-.1573								-.1298	
140.000						-.2227								-.1167	
150.000						-.1970								-.1124	
160.000						-.1813								-.1131	
170.000						-.1792								-.1126	
180.000						- 1772	-.1307	-.1009	-.0935	-.0965	-.0976	-.1031	-.1095	-.1149	-.1183

X/L	.4300	.4620	.4880	.5050	.5240	.5460	.5510	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1618	-.1567	-.1408	-.1310	-.0949	-.0603	-.0445	-.0358	-.0298	-.0173	-.0006	.0015	-.0110	-.0173	-.0362
100.000	-.1618	-.1618	-.1518	-.1351	-.1167	-.0734	-.0471	-.0398	-.0278	-.0327	-.0116	-.0040	-.0058	-.0082	-.0339
110.000	.0000	-.1500	-.1405	-.1341	-.1249	-.1013	-.0682	-.0421	-.0361	-.0330	-.0262	-.0173	-.0087	-.0129	- 0310
120.000						-.1110								-.0447	
130.000						-.1113								-.0538	
140.000						-.1126								-.0603	
150.000						-.1011								-.0705	
160.000						-.1032								-.0825	
170.000						-.0979								-.0937	
180.000	-.1102	-.1154	-.1085	-.1013	-.1013	-.1008	-.1042	-.0403	-.1084	-.1128	-.1086	-.1102	-.1070	-.1010	-.0109

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0003		
70.000							-.0134	-.0174	.0000
80.000							-.0077	-.0426	-.0624
90.000	-.0112	-.0483	-.0723	-.0782	-.0139	.0000	.0037	-.0510	-.0784
100.000	-.0391	-.0572	-.0708	-.0315	.0629	.0671			
110.000	-.0418	-.0550	-.0426	.0764	.1268	.0956			
120.000						.2415			
130.000						.3414			
140.000						.1867			
150.000						.1828			
160.000						.2125			
170.000						.2285			
180.000	-.0441	-.0547	.0983	.1835	.2164	.2803			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (I) = 1.750 ALPHA (I) = 4.246

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3038	.2504	.1330												
70.000	.2363	.2522	.1608												
80.000	.2834	.2533	.1819												
90.000			.2221	.1456	.0029	-.0773	-.0940	-.1107	-.1352	-.1442	-.1491	-.1630	-.1654	-.1660	-.1851
100.000						-.0750	-.0881	-.1079	-.1241	-.1442	-.1586	-.1789	-.1800	-.1898	-.1977
110.000						-.0904	-.1028	-.1177	-.1378	-.1645	-.1792	-.1867	-.1908	-.1974	-.1880
120.000						-.0555								.0000	
130.000						-.1697								-.1572	
140.000						-.2456								-.1421	
150.000						-.2219								-.1329	
160.000						-.2065								-.1326	
170.000						-.2047								-.1313	
180.000						-.2067	-.1655	-.1303	-.1210	-.1223	-.1223	-.1264	-.1305	-.1346	-.1308

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1772	-.1764	-.1605	-.1449	-.1105	-.0759	-.0646	-.0578	-.0510	-.0377	-.0165	-.0113	-.0199	-.0283	-.0450
100.000	-.1836	-.1807	-.1733	-.1531	-.1246	-.0864	-.0674	-.0575	-.0479	-.0531	-.0325	-.0215	-.0184	-.0184	-.0426
110.000	.0000	-.1743	-.1636	-.1541	-.1379	-.1069	-.0758	-.0570	-.0544	-.0518	-.0484	-.0379	-.0283	-.0291	-.0460
120.000						-.1221								-.0640	
130.000						-.1269								-.0664	
140.000						-.1241								-.0734	
150.000						-.1175								-.0823	
160.000						-.1147								-.0920	
170.000						-.1136								-.1019	
180.000	-.1290	-.1233	-.1144	-.1090	-.1103	-.1142	-.1175	-.0515	-.1233	-.1241	-.1196	-.1201	-.1113	-.1074	-.0156

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0327		
70.000							-.0354	-.0315	.0000
80.000							-.0144	-.0591	-.0787
90.000	-.0174	-.0549	-.0760	-.0947	-.0831	.0000	.0039	-.0601	-.0960
100.000	-.0495	-.0845	-.0789	-.0710	.0335	.0693			
110.000	-.0537	-.0646	-.0619	.0335	.1275	.1145			
120.000						.2422			
130.000						.3061			
140.000						.1381			
150.000						.1543			
160.000						.1838			
170.000						.1781			
180.000	-.0537	-.0675	.1042	.1621	.1924	.2339			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.730 ALPHA (0) = 6.324

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2849	.2250	.1155												
90.000	.2589	.2236	.1446												
80.000	.2455	.2190	.1657												
90.000			.2010	.1191	-.0346	-.0938	-.1143	-.1305	-.1509	-.1588	-.1627	-.1712	-.1744	-.1775	-.1323
100.000						-.0938	-.1012	-.1205	-.1383	-.1552	-.1709	-.1905	-.1918	-.2026	-.2008
110.000						-.0927	-.1092	-.1298	-.1493	-.1789	-.1956	-.2036	-.2087	-.2172	-.2108
120.000						- 0693								.0000	
130.000						-.1828								-.1877	
140.000						-.2689								-.1654	
150.000						-.2494								-.1495	
160.000						-.2304								-.1465	
170.000						-.2311								-.1465	
180.000						-.2298	-.1928	-.1586	-.1470	-.1452	-.1431	-.1403	-.1465	-.1465	-.1408

X/L	.4900	.4680	.4360	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1823	-.1738	-.1400	-.1110	-.0857	-.0826	-.0703	-.0656	-.0620	-.0526	-.0267	-.0204	-.0309	-.0351	-.0542
100.000	-.1985	-.1946	-.1720	-.1315	-.0941	-.0785	-.0755	-.0695	-.0580	-.0672	-.0478	-.0319	-.0267	-.0291	-.0490
110.000	.0000	-.1941	-.1756	-.1492	-.1095	-.0808	-.0758	-.0716	-.0706	-.0716	-.06*4	-.0591	-.0408	-.0392	-.0569
120.000						-.1103								-.0909	
130.000						-.1280								-.0867	
140.000						-.1379								-.0870	
150.000						-.1306								-.0917	
160.000						-.1317								-.0943	
170.000						-.1280								-.0951	
180.000	-.1387	-.1336	-.1290	-.1272	-.1290	-.1317	-.1353	-.0690	-.1348	-.1332	-.1191	-.1144	-.1013	-.0914	-.0159

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0725		
90.000							-.0675	-.0549	.0000
80.000							-.0376	-.0777	-.0999
90.000	-.0109	-.0636	-.0705	-.1106	-.1054	.0000	-.0107	-.0759	-.1118
100.000	-.0493	-.0723	-.0871	-.0980	-.0127	.0462			
110.000	-.0801	-.0868	-.0812	-.0210	.1152	.1145			
120.000						.2807			
130.000						.3055			
140.000						.0902			
150.000						.1223			
160.000						.1660			
170.000						.1516			
180.000	-.0626	-.0777	.1049	.1489	.1815	.2169			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (1) = 1.750 ALPHA (9) = 8.448

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2667	.2121	.1503												
70.000	.2350	.2108	.1284												
80.000	.2157	.2025	.1505												
90.000			.1830	.0882	-.0642	-.1136	-.1363	-.1539	-.1680	-.1719	-.1734	-.1822	-.1836	-.1857	-.1954
100.000						-.1123	-.1209	-.1389	-.1533	-.1690	-.1817	-.1992	-.1998	-.2113	-.2093
110.000						-.1033	-.1209	-.1412	-.1618	-.1920	-.2053	-.2139	-.2205	-.2282	-.2257
120.000						-.0843								.0000	
130.000						-.1941								-.2093	
140.000						-.2916								-.1811	
150.000						-.2739								-.1652	
160.000						-.2507								-.1644	
170.000						-.2512								-.1577	
180.000						-.2507	-.2164	-.1760	-.1662	-.1580	-.1533	-.1547	-.1575	-.1565	-.1562

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1729	-.1334	-.0850	-.0791	-.0760	-.0814	-.0758	-.0714	-.0648	-.0544	-.0257	-.0199	-.0346	-.0427	-.0681
100.000	-.2036	-.1865	-.1286	-.0929	-.0809	-.0816	-.0797	-.0755	-.0667	-.0768	-.0495	-.0346	-.0333	-.0398	-.0636
110.000	.0000	-.2061	-.1681	-.1137	-.0934	-.0883	-.0849	-.0839	-.0834	-.0842	-.0808	-.0646	-.0474	-.0539	-.0720
120.000						-.1119								-.1189	
130.000						-.1181								-.1072	
140.000						-.1248								-.0993	
150.000						-.1403								-.0957	
160.000						-.1476								-.0876	
170.000						-.1473								-.0805	
180.000	-.1559	-.1501	-.1468	-.1450	-.1491	-.1486	-.1523	-.0855	-.1429	-.1283	-.1056	-.0925	-.0774	-.0696	.0000

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1141		
70.000							-.1057	-.0837	.0000
80.000							-.0669	-.1010	-.1173
90.000	.0084	-.0797	-.0912	-.1309	-.1331	.0000	-.0369	-.0938	-.1397
100.000	-.0473	-.0846	-.1007	-.1247	-.0804	.0195			
110.000	-.0631	-.0861	-.1069	-.0456	.0782	.0910			
120.000						.2740			
130.000						.3006			
140.000						.0735			
150.000						.1136			
160.000						.1635			
170.000						.1337			
180.000	-.0792	-.0777	.1030	.1442	.1811	.2416			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.004 ALPHA (1) = -7.925

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3749	.4532	.3116												
70.000	.3962	.4396	.3615												
80.000	.4150	.4410	.3978												
90.000			.4276	.2950	.1028	.0305	.0174	-.0039	-.0355	-.0431	-.0481	-.0501	-.0454	-.0413	-.0451
100.000						.0311	.0103	-.0022	-.0216	-.0439	-.0532	-.0624	-.0484	-.0506	-.0370
110.000						-.0131	-.0216	-.0303	-.0336	-.0521	-.0567	-.0489	-.0408	-.0427	-.0286
120.000						.0603								.0000	
130.000						-.0129								.0133	
140.000						-.0597								.0109	
150.000						-.0368								.0237	
160.000						-.0333								.0210	
170.000						-.0407								.0385	
180.000						-.0499	-.0079	.0310	.0469	.0515	.0591	.0532	.0502	.0459	.0374

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0313	-.0491	-.0183	-.0049	.0177	.0379	.0516	.0571	.0656	.0749	.0915	.0925	.0879	.0863	.0749
100.000	-.0283	-.0304	-.0247	-.0131	.0005	.0158	.0314	.0475	.0607	.0593	.0764	.0819	.0860	.0906	.0783
110.000	.0000	-.0171	-.0117	-.0112	-.0098	-.0038	.0098	.0300	.0484	.0560	.0620	.0671	.0740	.0778	.0765
120.000						.0103								.0499	
130.000						.0164								.0385	
140.000						.0188								.0206	
150.000						.0306								.0218	
160.000						.0306								.0155	
170.000						.0319								.0106	
180.000	.0318	.0292	.0322	.0332	.0286	.0270	.0240	.0191	.0172	.0133	.0174	.0122	.0128	.0095	.0913

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							.1054		
70.000							.1028	.0951	.0000
80.000							.1114	.0735	.0543
90.000	.0936	.0387	.0370	.0471	.0874	.0000	.1268	.0668	.0338
100.000	.0892	.0926	.0463	.0858	.1479	.1509			
110.000	.0723	.0876	.0635	.1679	.2148	.1473			
120.000						.2714			
130.000						.4672			
140.000						.3924			
150.000						.3846			
160.000						.4204			
170.000						.4267			
180.000	.0906	.0011	.0100	.2134	.3918	.5025			

AEDC 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.002 ALPHA (2) = -5.793

SECTION (..ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3481	.4279	.2787												
70.000	.3809	.4121	.3250												
90.000	.3899	.4110	.3565												
95.000			.3903	.2691	.0954	.0169	.0006	-.0193	-.0481	-.0586	-.0568	-.0658	-.0847	-.0636	-.0690
100.000						.0186	-.0010	-.0136	-.0356	-.0554	-.0682	-.0807	-.0712	-.0750	-.0617
105.000						-.0206	-.0277	-.0402	-.0448	-.0674	-.0767	-.0734	-.0623	-.0666	-.0512
110.000						.0453								.0000	
120.000						-.0296								-.0173	
130.000						-.0862								-.0186	
140.000						-.0660								-.0045	
150.000						-.0587								-.0002	
160.000						-.0677								.0088	
170.000						-.0696	-.0380	-.0027	.0156	.0224	.0270	.0224	.0205	.0151	.0068
180.000															
X/L	.4930	.4680	.4980	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0368	-.0353	-.0458	-.0378	-.0241	.0003	.0118	.0263	.0344	.0451	.0579	.0606	.0587	.0541	.0398
100.000	-.0922	-.0971	-.0901	-.0401	-.0311	-.0233	-.0096	.0118	.0312	.0309	.0484	.0500	.0544	.0601	.0461
110.000	.0000	-.0420	-.0365	-.0344	-.0338	-.0306	-.0226	-.0052	.0148	.0295	.0350	.0413	.0481	.0497	.0461
120.000						-.0134								.0254	
130.000						-.0095								.0112	
140.000						-.0089								.0028	
150.000						.0025								-.0041	
160.000						.0020								-.0093	
170.000						.0033								-.0154	
180.000	.0020	.0020	.0031	.0061	.0041	.0025	-.0027	-.0038	-.0069	-.0099	-.0065	-.0126	-.0124	-.0143	.0614
X/L	.7290	.7490	.7690	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
80.000							.0699								
70.000							.0657	.0816	.0000						
80.000							.0769	.0429	.0250						
90.000	.0209	.0040	.0036	.0071	.0502	.0000	.0953	.0411	.0086						
100.000	.0237	.0227	.0165	.0512	.1169	.1197									
110.000	.0393	.0365	.0329	.1504	.2178	.1215									
120.000						.2596									
130.000						.4337									
140.000						.3431									
150.000						.3259									
160.000						.3595									
170.000						.3701									
180.000	.0424	-.0211	-.0165	.1685	.3076	.4417									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.001 ALPHA (3) = -3.678

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3449	.3937	.2483												
70.000	.3371	.3920	.2935												
80.000	.3368	.3904	.3232												
90.000			.3537	.2445	.0828	.0020	-.0149	-.0350	-.0592	-.0703	-.0706	-.0801	-.0806	-.0817	-.0912
100.000						.0012	-.0157	-.0274	-.0486	-.0681	-.0804	-.0951	-.0907	-.0955	-.0844
110.000						-.027	-.0369	-.0486	-.0546	-.0798	-.0926	-.0917	-.0869	-.0958	-.0771
120.000						.0327								.0000	
130.000						-.0497								-.0446	
140.000						-.1117								-.0373	
150.000						-.0940								-.0303	
160.000						-.0845								-.0319	
170.000						-.0945								-.0170	
180.000						-.0964	-.0662	-.0339	-.0151	-.0045	.0001	-.0010	-.0064	-.0110	-.0186

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0809	-.0785	-.0706	-.0641	-.0563	-.0384	-.0170	-.0007	.0083	.0178	.0331	.0328	.0309	.0276	.0148
100.000	-.0774	-.0809	-.0747	-.0655	-.0584	-.0527	-.0415	-.0151	.0055	.0064	.0244	.0254	.0306	.0325	.0200
110.000	.0000	-.0668	-.0606	-.0584	-.0560	-.0544	-.0462	-.0335	-.0131	.0058	.0134	.0186	.0238	.0271	.0229
120.000						-.0357								.0017	
130.000						-.0308								-.0090	
140.000						-.0286								-.0220	
150.000						-.0211								-.0289	
160.000						-.0209								-.0352	
170.000						-.0206								-.0399	
180.000	-.0243	-.0243	-.0221	-.0181	-.0213	-.0211	-.0250	-.0294	-.0291	-.0335	-.0308	-.0371	-.0363	-.0388	.0307

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0400		
70.000							.0358	.0278	.0000
80.000							.0439	.0167	-.0005
90.000	-.0033	-.0179	-.0192	-.0174	.0172	.0000	.0641	.0180	-.0125
100.000	-.0020	-.0044	-.0122	.0190	.0851	.0887			
110.000	.0169	.0136	.0068	.1033	.1528	.1004			
120.000						.2466			
130.000						.4045			
140.000						.2899			
150.000						.2674			
160.000						.3008			
170.000						.3145			
180.000	.0208	-.0401	-.0375	.1357	.2668	.3856			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.001 ALPHA (4) = -1.592

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3511	.3562	.2228												
70.000	.3315	.3622	.2607												
80.000	.3176	.3603	.2865												
90.000			.3178	.2171	.0613	-.0119	-.0288	-.0478	-.0704	-.0794	-.0834	-.0940	-.0954	-.0989	-.1095
100.000						-.0122	-.0274	-.0418	-.0609	-.0804	-.0924	-.1071	-.1062	-.1133	-.1078
110.000						-.0337	-.0440	-.0551	-.0647	-.0927	-.1049	-.1097	- 1054	-.1119	-.1013
120.000						.0235								.0000	
130.000						-.0660								-.0721	
140.000						-.1335								-.0615	
150.000						-.1174								-.0514	
160.000						-.1063								-.0536	
170.000						-.1128								-.0417	
180.000						-.1147	-.0881	-.0551	-.0394	-.0293	-.0255	-.0268	-.0317	-.0365	-.0425

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1021	-.1015	-.0912	-.0869	-.0744	-.0598	-.0391	-.0220	-.0123	-.0035	.0102	.0145	.0121	.0074	-.0033
100.000	-.1030	-.1023	-.0961	-.0866	-.0782	-.0712	-.0573	-.0344	-.0146	-.0104	.0022	.0061	.0118	.0134	.0013
110.000	.0000	-.0888	-.0826	-.0799	-.0777	-.0725	-.0670	-.0499	-.0286	-.0121	-.0055	-.0002	.0042	.0074	.0024
120.000						-.0563								-.0137	
130.000						-.0540								-.0250	
140.000						-.0521								-.0363	
150.000						-.0435								-.0460	
160.000						-.0438								-.0523	
170.000						-.0416								-.0584	
180.000	-.0463	-.0460	-.0411	-.0395	-.0417	-.0438	-.0476	-.0499	-.0515	-.0551	-.0518	-.0573	-.0584	-.0592	.0042

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0185		
70.000							.0135	.0071	.0000
80.000							.0244	-.0107	-.0245
90.000	-.0214	-.0355	-.0386	-.0386	-.0052	.0000	.0356	-.0039	-.0326
100.000	-.0222	-.0258	-.0316	-.0101	.0504	.0594			
110.000	-.0052	-.0088	-.0172	.0686	.1230	.0729			
120.000						.2345			
130.000						.3769			
140.000						.2496			
150.000						.2190			
160.000						.2530			
170.000						.2693			
180.000	-.0023	-.0533	-.0540	.1249	.2353	.3354			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.001 ALPHA (5) = .502

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3584	.3214	.1936												
70.000	.3377	.3235	.2250												
80.000	.3122	.3267	.2516												
90.000			.2846	.1770	.0455	-.0309	-.0435	-.0601	-.0816	-.0896	-.0947	-.1035	-.1091	-.1126	-.1249
100.000						-.0304	-.0382	-.0521	-.0711	-.0885	-.1017	-.1175	-.1203	-.1299	-.1267
110.000						-.0430	-.0532	-.0649	-.0762	-.1022	-.1156	-.1230	-.1257	-.1299	-.1241
120.000						.0103								.0000	
130.000						-.0824								-.1011	
140.000						-.1545								-.0864	
150.000						-.1411								-.0744	
160.000						-.1280								-.0762	
170.000						-.1331								-.0653	
180.000						-.1339	-.1067	-.0743	-.0561	-.0499	-.0497	-.0519	-.0562	-.0610	-.0656

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1219	-.1186	-.1106	-.1037	-.0671	-.0618	-.0455	-.0357	-.0303	-.0240	-.0094	-.0058	-.0075	-.0121	-.0233
100.000	-.1243	-.1234	-.1173	-.1047	-.0938	-.0794	-.0594	-.0403	-.0268	-.0289	-.0156	-.0118	-.0072	-.0045	-.0181
110.000	.0000	-.1130	-.1063	-.1028	-.0970	-.0799	-.0743	-.0499	-.0308	-.0251	-.0219	-.0194	-.0134	-.0107	-.0161
120.000						-.0772								-.0319	
130.000						-.0751								-.0384	
140.000						-.0730								-.0463	
150.000						-.0675								-.0553	
160.000						-.0664								-.0670	
170.000						-.0637								-.0729	
180.000	-.0874	-.0871	-.0828	-.0804	-.0812	-.0654	-.0700	-.0621	-.0732	-.0757	-.0721	-.0757	-.0751	-.0759	-.0148

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0049		
70.000							-.0078	-.0134	.0000
80.000							.0076	-.0276	-.0451
90.000	-.0395	-.0555	-.0629	-.0619	-.0297	.0000	.0237	-.0240	-.0543
100.000	-.0410	-.0529	-.0598	-.0269	.0367	.0513			
110.000	-.0297	-.0382	-.0390	.0413	.0991	.0595			
120.000						.2169			
130.000						.3436			
140.000						.2000			
150.000						.1786			
160.000						.2062			
170.000						.2210			
180.000	-.0266	-.0503	-.0591	.1236	.2051	.2956			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.001 ALPHA (6) = 2.649

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3453	.2847	.1672												
70.000	.3265	.2932	.1946												
80.000	.2994	.2911	.2190												
90.000			.2479	.1425	.0117	-.0467	-.0604	-.0724	-.0853	-.0850	-.0866	-.0968	-.1200	-.1242	-.1213
100.000						-.0457	-.0526	-.0652	-.0799	-.0909	-.0995	-.1102	-.1306	-.1400	-.1242
110.000						-.0454	-.0582	-.0762	-.0869	-.1123	-.1214	-.1354	-.1400	-.1392	-.1272
120.000						-.0015								.0000	
130.000						-.0952								-.1210	
140.000						-.1707								-.1074	
150.000						-.1595								-.0973	
160.000						-.1456								-.0901	
170.000						-.1480								-.0866	
180.000						-.1469	-.1238	-.0941	-.0778	-.0746	-.0722	-.0759	-.0783	-.0821	-.0853

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1184	-.1213	-.1170	-.1165	-.1146	-.1101	-.0512	-.1026	-.0871	-.0607	-.0360	-.0235	-.0229	-.0251	-.0428
100.000	-.1248	-.1288	-.1261	-.1181	-.1127	-.1119	-.0526	-.1034	-.0906	-.0773	-.0479	-.0300	-.0216	-.0172	-.0395
110.000	.0090	-.1256	-.1189	-.1165	-.1106	-.1058	-.0526	-.0990	-.0933	-.0841	-.0656	-.0447	-.0295	-.0265	-.0382
120.000						-.0925								-.0558	
130.000						-.0955								-.0718	
140.000						-.0952								-.0805	
150.000						-.0865								-.0824	
160.000						-.0852								-.0860	
170.000						-.0825								-.0881	
180.000	-.0866	-.0869	-.0823	-.0791	-.0789	-.0835	-.0868	-.0868	-.0865	-.0873	-.0851	-.0865	-.0860	-.0865	-.0202

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0240		
70.000							-.0251	-.0279	.0000
80.000							-.0063	-.0400	-.0588
90.000	-.0547	-.0716	-.0704	-.0763	-.0508	.0000	.0096	-.0367	-.0629
100.000	-.0583	-.0668	-.0686	-.0469	.0188	.0420			
110.000	-.0467	-.0552	-.0521	.0336	.0898	.0615			
120.000						.2206			
130.000						.3072			
140.000						.1565			
150.000						.1460			
160.000						.1700			
170.000						.1775			
180.000	-.0446	-.0668	-.0704	.1005	.1716	.2538			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.001 ALPHA (7) = 4.684

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3224	.2561	.1399												
70.000	.2996	.2588	.1652												
80.000	.2733	.2556	.1869												
90.000			.2113	.1118	-.0261	-.0492	-.0703	-.0762	-.0872	-.0936	-.0971	-.1078	-.1128	-.1174	-.1334
100.000						-.0492	-.0623	-.0709	-.0786	-.0936	-.1043	-.1212	-.1248	-.1345	-.1395
110.000						-.0562	-.0679	-.0821	-.0934	-.1135	-.1231	-.1302	-.1366	-.1443	-.1470
120.000						-.0184								.0000	
130.000						-.1082								-.1427	
140.000						-.1889								-.1267	
150.000						-.1792								-.1139	
160.000						-.1631								-.1152	
170.000						-.1642								-.1029	
180.000						-.1631	-.1424	-.1132	-.0979	-.0939	-.0907	-.0944	-.0968	-.1000	-.1029

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1313	-.1336	-.1267	-.1261	-.1224	-.1179	-.1073	-.0882	-.0719	-.0600	-.0441	-.0365	-.0360	-.0387	-.0483
100.000	-.1401	-.1443	-.1432	-.1325	-.1272	-.1184	-.1124	-.0988	-.0757	-.0676	-.0512	-.0436	-.0357	-.0322	-.0454
110.000	.0000	-.1456	-.1411	-.1349	-.1291	-.1197	-.1151	-.1029	-.0880	-.0711	-.0580	-.0526	-.0460	-.0428	-.0475
120.000						-.1114								-.0656	
130.000						-.1075								-.0702	
140.000						-.1059								-.0789	
150.000						-.0986								-.0843	
160.000						-.0983								-.0922	
170.000						-.0948								-.0963	
180.000	-.1040	-.1010	-.0965	-.0938	-.0944	-.0950	-.0975	-.1010	-.1002	-.1005	-.0977	-.0993	-.0977	-.0971	-.0416

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0570		
70.000							-.0482	-.0431	.0000
80.000							-.0161	-.0521	-.0711
90.000	-.0824	-.0753	-.0843	-.0930	-.0897	.0000	.0062	-.0421	-.0768
100.000	-.0824	-.0743	-.0833	-.0745	-.0166	.0361			
110.000	-.0537	-.0681	-.0735	-.0084	.0862	.0752			
120.000						.2257			
130.000						.2827			
140.000						.0998			
150.000						.1130			
160.000						.1396			
170.000						.1281			
180.000	-.0511	-.0755	-.0463	.0985	.1537	.2295			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.003 ALPHA (8) = 6.796

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2981	.2523	.1187												
70.000	.2672	.2345	.1402												
80.000	.2412	.2226	.1555												
90.000			.1767	.0651	-.0078	-.0563	-.0813	-.0899	-.1017	-.1055	-.1098	-.1202	-.1235	-.1273	-.1422
100.000						-.0586	-.0879	-.0781	-.0862	-.1015	-.1133	-.1315	-.1369	-.1457	-.1497
110.000						-.0604	-.0733	-.0843	-.0958	-.1189	-.1312	-.1428	-.1497	-.1575	-.1596
120.000						-.0303								.0000	
130.000						-.1178								-.1652	
140.000						-.1993								-.1446	
150.000						-.1942								-.1297	
160.000						-.1781								-.1307	
170.000						-.1771								-.1179	
180.000						-.1755	-.1575	-.1315	-.1146	-.1100	-.1084	-.1112	-.1139	-.1163	-.1190

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1362	-.1368	-.1308	-.1267	-.1118	-.0880	-.0743	-.0680	-.0664	-.0829	-.0482	-.0444	-.0463	-.0487	-.0818
100.000	-.1511	-.1540	-.1521	-.1401	-.1294	-.1094	-.0887	-.0770	-.0645	-.0708	-.0566	-.0552	-.0465	-.0427	-.0585
110.000	.0000	-.1615	-.1580	-.1516	-.1433	-.1270	-.1078	-.0844	-.0735	-.0713	-.0713	-.0688	-.0615	-.0580	-.0626
120.000						-.1310								-.0903	
130.000						-.1274								-.0827	
140.000						-.1222								-.0827	
150.000						-.1165								-.0860	
160.000						-.1138								-.0920	
170.000						-.1094								-.0977	
180.000	-.1193	-.1160	-.1104	-.1078	-.1088	-.1086	-.1124	-.1007	-.1138	-.1140	-.1096	-.1091	-.1042	-.1015	-.0417

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0904		
70.000							-.0749	-.0839	.0000
80.000							-.0373	-.0662	-.0860
90.000	-.0685	-.0824	-.0896	-.1072	-.1100	.0000	-.0069	-.0530	-.0881
100.000	-.0721	-.0855	-.0927	-.0951	-.0864	.0216			
110.000	-.0864	-.0840	-.0935	-.0489	.0681	.0802			
120.000						.2608			
130.000						.2677			
140.000						.0628			
150.000						.0901			
160.000						.1239			
170.000						.0981			
180.000	-.0892	-.0835	-.0273	.0948	.1434	.2189			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB009)

MACH (2) = 2.003 ALPHA (9) = 8.933

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2766	.2116	.0908												
70.000	.2393	.2095	.1106												
80.000	.2073	.1928	.1235												
90.000			.1439	.0534	-.0544	-.0971	-.1065	-.1151	-.1218	-.1252	-.1258	-.1346	-.1369	-.1382	-.1452
100.000						-.0968	-.0901	-.0955	-.1049	-.1183	-.1293	-.1448	-.1481	-.1570	-.1583
110.000						-.0727	-.0847	-.0998	-.1102	-.1344	-.1478	-.1575	-.1639	-.1714	-.1722
120.000						-.0453								.0000	
130.000						-.1301								-.1917	
140.000						-.2122								-.1666	
150.000						-.2090								-.1519	
160.000						-.1934								-.1407	
170.000						-.1894								-.1398	
180.000						-.1883	-.1708	-.1475	-.1314	-.1277	-.1258	-.1289	-.1300	-.1334	-.1345

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1334	-.1243	-.0949	-.0812	-.0663	-.0673	-.0650	-.0653	-.0686	-.0678	-.0585	-.0533	-.0566	-.0607	-.0726
100.000	-.1548	-.1494	-.1355	-.1096	-.0869	-.0804	-.0776	-.0784	-.0727	-.0816	-.0710	-.0688	-.0612	-.0585	-.0713
110.000	.0000	-.1678	-.1571	-.1411	-.1200	-.1026	-.0947	-.0906	-.0901	-.0903	-.0920	-.0898	-.0800	-.0767	-.0788
120.000						-.1302								-.1241	
130.000						-.1301								-.1086	
140.000						-.1323								-.0988	
150.000						-.1306								-.0969	
160.000						-.1303								-.0966	
170.000						-.1274								-.0985	
180.000	-.1347	-.1320	-.1277	-.1253	-.1253	-.1257	-.1276	-.1135	-.1279	-.1230	-.1143	-.1105	-.0993	-.0944	-.0327

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1146		
70.000							-.1020	-.0845	.0000
80.000							-.0569	-.0827	-.1010
90.000	-.0705	-.0919	-.0999	-.1187	-.1229	.0000	-.0270	-.0687	-.1019
100.000	-.0814	-.0971	-.1030	-.1097	-.0917	.0100			
110.000	-.0790	-.0966	-.1100	-.0659	.0307	.0763			
120.000						.2578			
130.000						.2683			
140.000						.0326			
150.000						.0786			
160.000						.1157			
170.000						.0761			
180.000	-.0809	-.0881	-.0257	.0855	.1429	.2383			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB010) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .801 ALPHA (1) = -8.517

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0043	-.0520	-.2239												
70.000	.0834	-.0552	-.1777												
80.000	.1388	-.0810	-.1901												
90.000			-.2579	-.3633	-.3776	-.2143	-.1481	-.1105	-.0879	-.0771	-.0596	-.0386	-.0098	-.0026	-.0156
100.000						-.2433	-.1853	-.1347	-.1023	-.0606	-.0265	-.0504	-.0150	-.0378	-.0258
110.000						-.3697	-.2643	-.1987	-.1163	-.0762	-.0584	-.0327	-.0311	-.0489	-.0280
120.000						-.1975								.0000	
130.000						-.2366								-.0384	
140.000						-.2471								-.0343	
150.000						-.1854								-.0213	
160.000						-.1736								-.0375	
170.000						-.1771								-.0346	
180.000						-.1475	-.1271	-.0867	-.0864	-.0708	-.0456	-.0448	-.0156	-.0229	-.0251

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0190	.0203	.0254	.0318	.0486	.0397	.0590	.0545	.0708	.0379	.0408	.0082	-.0096	-.0037	-.0108
100.000	.0075	-.0014	.0225	.0280	.0423	.0544	.0443	.0513	.0724	.0168	.0363	.0085	.0053	-.0047	-.0121
110.000	.0000	-.0090	.0168	.0190	.0152	.0286	.0251	.0459	.0542	.0475	.0398	.0162	-.0025	-.0002	.0066
120.000						.0257								.0436	
130.000						.0037								.0625	
140.000						-.0038								.0698	
150.000						.0309								.0679	
160.000						.0219								.0855	
170.000						.0226								.0714	
180.000	-.0182	-.0102	.0034	-.0058	.0286	.0203	.0130	.0050	-.0018	.0098	.0286	.0398	.0507	.0845	.2304

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0229		
70.000							-.0244	-.0372	.0000
80.000							-.0317	-.0806	-.0690
90.000	-.0325	-.0194	-.0056	.0081	.0722	.0000	-.0238	-.0684	-.0773
100.000	.0035	.0230	.0464	.0239	-.0121	-.0571			
110.000	.0382	.0491	.0868	.0558	-.0106	-.1400			
120.000						-.2538			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .601 ALPHA (1) = -8.317

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.0829			
140.000						.0764			
150.000						.1490			
160.000						.2106			
170.000						.3103			
180.000	.0995	.1718	.2477	.2684	.3361	.3601			

MACH (1) = .601 ALPHA (2) = -8.417

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.0015	-.0615	-.2083												
70.000	.0835	-.0390	-.1633												
80.000	.1230	-.0849	-.1534												
90.000			-.2443	-.3619	-.3863	-.2173	-.1514	-.1029	-.0807	-.0993	-.0589	-.0592	-.0212	-.0225	-.0353
100.000						-.2575	-.1899	-.1565	-.1029	-.0631	-.0518	-.0666	-.0372	-.0597	-.0283
110.000						-.3699	-.2532	-.1893	-.1238	-.0875	-.0582	-.0350	-.0331	-.0353	-.0254
120.000						-.2196								.0000	
130.000						-.2626								-.0504	
140.000						-.2584								-.0622	
150.000						-.2147								-.0606	
160.000						-.2109								-.0526	
170.000						-.2102								-.0670	
180.000						-.1665	-.1469	-.1206	-.1048	-.0936	-.0672	-.0494	-.0552	-.0446	-.0430

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0081	-.0001	.0150	.0182	.0211	.0230	.0373	.0269	.0289	.0153	.0004	-.0208	-.0407	-.0495	-.0380
100.000	-.0107	-.0250	-.0141	.0185	.0259	.0163	.0140	.0066	.0257	-.0080	-.0045	-.0302	-.0420	-.0214	-.0346
110.000	.0000	.0009	.0086	-.0026	.0086	.0047	.0231	.0160	.0140	.0069	.0027	-.0097	-.0120	-.0211	-.0241
120.000						.0073								.0192	
130.000						-.0[illegible]								.0357	
140.000						-.0142								.0460	
150.000						.0018								.0363	
160.000						.0050								.0450	
170.000						.0060								.0469	
180.000	-.0455	-.0263	-.0145	-.0074	-.0014	.0028	-.0210	-.0178	-.0162	-.0083	.0027	.0105	.0334	.0495	.2107

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .601 ALPHA (2) = -8.417

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7295	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0027		
70.000							-.0189	-.0316	.0000
60.000							-.0396	-.0869	-.0726
90.000	-.0405	-.0185	-.0253	-.0253	.0567	.0000	-.0405	-.0853	-.0884
100.000	-.0219	.0085	.0129	.0156	-.0300	-.0846			
110.000	.0058	.0230	.0494	.0595	-.0223	-.1257			
120.000						-.2421			
130.000						-.0421			
140.000						.0416			
150.000						.1287			
160.000						.1775			
170.000						.3010			
180.000	.0848	.1435	.1987	.2441	.3114	.3353			

MACH (1) = .900 ALPHA (3) = -4.281

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0081	-.0568	-.2118												
70.000	.0882	-.0355	-.1624												
60.000	.1044	-.0807	-.1614												
90.000			-.2034	-.3900	-.3829	-.2315	-.1474	-.1155	-.0890	-.1074	-.0819	-.0742	-.0341	-.0283	-.0586
100.000						-.2470	-.2039	-.1507	-.1032	-.0823	-.0626	-.0900	-.0453	-.0736	-.0424
110.000						-.3338	-.2481	-.1903	-.1258	-.0845	-.0713	-.0511	-.0476	-.0582	-.0405
120.000						-.2231								.0000	
130.000						-.3002								-.0649	
140.000						-.2847								-.0711	
150.000						-.2412								-.0743	
160.000						-.2160								-.0720	
170.000						-.2305								-.0611	
180.000						-.2018	-.1649	-.1410	-.1281	-.1105	-.0845	-.0682	-.0611	-.0566	-.0489

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0246	-.0151	-.0041	.0036	.0139	-.0054	.0155	.0055	-.0047	-.0286	-.0394	-.0689	-.0938	-.0813	-.0727
100.000	-.0365	-.0337	-.0228	-.0086	.0065	-.0192	-.0125	-.0099	-.0037	-.0424	-.0322	-.0473	-.0754	-.0669	-.0544
110.000	.0000	-.0180	-.0138	-.0112	-.0112	-.0212	-.0076	-.0083	-.0135	-.0197	-.0315	-.0407	-.0479	-.0427	-.0532
120.000						-.0192								-.0034	
130.000						-.0273								.0061	
140.000						-.0306								.0230	
150.000						-.0076								.0220	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .900 ALPHA (3) = -4.201

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4950	.4800	.4800	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0132								.0301	
170.000						-.0161								.0210	
160.000	-.0520	-.0305	-.0210	-.0337	-.0237	-.0194	-.0358	-.0338	-.0351	-.0345	-.0017	-.0080	.0217	.0243	.1873

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0031		
70.000							-.0335	-.0477	.0000
60.000							-.0446	-.0818	-.0750
50.000	-.0873	-.0828	-.0411	-.0384	.0400	.0000	-.0449	-.0849	-.0862
130.000	-.0408	-.0172	-.0089	.0020	-.0360	-.0648			
110.000	-.0190	.0212	.0458	.0535	-.0176	-.1328			
120.000						-.2247			
130.000						-.0421			
140.000						.0087			
150.000						.0927			
160.000						.1636			
170.000						.2750			
180.000	.0800	.1340	.1777	.2278	.2982	.3085			

MACH (1) = .801 ALPHA (4) = -2.840

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.0084	-.0529	-.2042												
70.000	.0724	-.0329	-.1565												
80.000	.0814	-.0616	-.1613												
90.000			-.2007	-.3449	-.3959	-.2326	-.1535	-.1206	-.0967	-.1242	-.0842	-.0764	-.0511	-.0495	[illegible]
100.000						-.2804	-.2019	-.1597	-.1100	-.0919	-.0677	-.0874	-.0581	-.0987	[illegible]
110.000						-.3407	-.2461	-.1971	-.1261	-.0919	-.0719	-.0675	-.0581	-.0[illegible]	[illegible]
120.000						-.2481								.0[illegible]	
130.000						-.3346								-.0[illegible]	
140.000						-.3239								-.0[illegible]	
150.000						-.2707								-.0[illegible]	
160.000						-.2387								-.0871	
170.000						-.2442								-.0977	
180.000						-.2213	-.1722	-.1516	-.1358	-.1164	-.0967	-.0835	-.0720	-.0678	-.0530

X/L	.4903	.4800	.4800	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6380	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB01D)

MACH (1) = .831 ALPHA (4) = -2.240

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4930	.4980	.4960	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0331	-.0247	-.0131	-.0137	-.0047	-.0141	-.0115	-.0236	-.0403	-.0691	-.0751	-.0971	-.1298	-.1331	-.1100
100.000	-.0414	-.0494	-.0362	-.0324	-.0170	-.0356	-.0416	-.0400	-.0279	-.0776	-.0584	-.0964	-.1026	-.0987	-.0976
110.000	.0000	-.0279	-.0295	-.0391	-.0269	-.0346	-.0374	-.0383	-.0383	-.0439	-.0601	-.0748	-.0774	-.0758	-.0843
120.000						-.0253								-.0316	
130.000						-.0547								-.0109	
140.000						-.0578								.0058	
150.000						-.0337								.0058	
160.000						-.0370								.0133	
170.000						-.0370								.0169	
180.000	-.0871	-.0482	-.0362	-.0482	-.0359	-.0315	-.0908	-.0908	-.0521	-.0377	-.0230	-.0217	-.0044	.0107	.1559

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0110		
70.000							-.0312	-.0498	.0000
80.000							-.0904	-.0761	-.0898
90.000	-.1301	-.0929	-.0909	-.0810	.0272	.0000	-.0526	-.0857	-.0884
100.000	-.0798	-.0398	-.0235	-.0015	-.0362	-.0816			
110.000	-.0303	-.0042	.0343	.0481	-.0109	-.1267			
120.000						-.2004			
130.000						-.0312			
140.000						-.0138			
150.000						.0861			
160.000						.1455			
170.000						.2450			
180.000	.0909	.1180	.1808	.2087	.2884	.2907			

MACH (1) = .998 ALPHA (5) = -.181

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0171	-.0803	-.1833												
70.000	.0000	-.0340	-.1544												
80.000	.0980	-.0642	-.1905												
90.000			-.1862	-.3424	-.3930	-.2460	-.1568	-.1247	-.1036	-.1364	-.1016	-.0806	-.0701	-.0627	-.0915
100.000						-.2534	-.2012	-.1779	-.1211	-.1003	-.0780	-.1039	-.0795	-.1096	-.0759
110.000						-.3265	-.2427	-.2084	-.1396	-.0990	-.0841	-.0853	-.0798	-.0940	-.0772
120.000						-.2619								.0000	
130.000						-.3743								-.0908	
140.000						-.3554								-.1063	
150.000						-.2908								-.0999	

AMES 06-030 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .900 ALPHA (5) = -.101

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE C'

X/L	.0875	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.2625								-.0989	
170.000						-.2393								-.1018	
160.000						-.2408	-.1931	-.1623	-.1506	-.1344	-.1085	-.0966	-.0909	-.0873	-.0766
X/L	.4930	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6830	.7100
PHI															
90.000	-.0517	-.0353	-.0382	-.0240	-.0188	-.0350	-.0417	-.0372	-.0838	-.1142	-.1067	-.1370	-.1574	-.1621	-.1477
100.000	-.0711	-.0892	-.0363	-.0317	-.0324	-.0527	-.0600	-.0746	-.0884	-.1247	-.0982	-.1344	-.1525	-.1360	-.1302
110.000	.0000	-.0492	-.0382	-.0557	-.0388	-.0553	-.0568	-.0598	-.0746	-.0779	-.0926	-.1094	-.1021	-.1011	-.1230
120.000						-.0434								-.0534	
130.000						-.0789								-.0359	
140.000						-.0902								-.0145	
150.000						-.0499								-.0053	
160.000						-.0542								.0013	
170.000						-.0552								-.0004	
180.000	-.0679	-.0557	-.0524	-.0492	-.0447	-.0529	-.0604	-.0684	-.0710	-.0720	-.0343	-.0317	-.0070	.0046	.1327
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
60.000							.0037								
70.000							-.0359	-.0400	.0000						
80.000							-.0490	-.0799	-.0824						
90.000	-.1002	-.1006	-.0800	-.0703	.0103	.0000	-.0546	-.0830	-.0780						
100.000	-.1043	-.0816	-.0338	-.0254	-.0582	-.0684									
110.000	-.0868	-.0204	.0209	.0450	-.0041	-.1267									
120.000						-.1825									
130.000						-.0338									
140.000						-.0525									
150.000						.0375									
160.000						.1267									
170.000						.2106									
180.000	.0438	.0821	.1373	.1727	.2378	.2518									

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB01D)

MACH (1) = .600 ALPHA (6) = 2.079

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0022	-.0553	-.1627												
70.000	.0990	-.0204	-.1472												
80.000	.0328	-.0585	-.1397												
90.000			-.1763	-.3277	-.3879	-.2381	-.1762	-.1390	-.1196	-.1523	-.1063	-.1092	-.0744	-.0622	-.0944
100.000						-.2624	-.2147	-.1856	-.1348	-.1041	-.0957	-.1167	-.0854	-.1215	-.0844
110.000						-.3038	-.2632	-.2263	-.1555	-.1283	-.0921	-.0908	-.0770	-.1131	-.0903
120.000						-.2772								.0000	
130.000						-.3957								-.1005	
140.000						-.3837								-.0957	
150.000						-.3212								-.0963	
160.000						-.2747								-.1099	
170.000						-.2827								-.1025	
180.000						-.2439	-.2014	-.1785	-.1655	-.1374	-.1122	-.0996	-.0896	-.0979	-.0812

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0705	-.0606	-.0640	-.0498	-.0498	-.0582	-.0499	-.0755	-.1057	-.1419	-.1451	-.1737	-.2128	-.1993	-.1637
100.000	-.0783	-.0849	-.0827	-.0685	-.0611	-.0798	-.0943	-.0867	-.0959	-.1566	-.1451	-.1730	-.1885	-.1616	-.1574
110.000	.0000	-.0648	-.0685	-.0875	-.0714	-.0933	-.0920	-.0877	-.0985	-.1077	-.1300	-.1616	-.1445	-.1422	-.1413
120.000						-.0833								-.0838	
130.000						-.0897								-.0509	
140.000						-.0644								-.0303	
150.000						-.0532								-.0309	
160.000						-.0670								-.0142	
170.000						-.0486								-.0204	
180.000	-.0751	-.0711	-.0543	-.0601	-.0582	-.0558	-.0726	-.0739	-.0759	-.0627	-.0611	-.0424	-.0375	-.0099	.1135

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0086		
70.000							-.0316	-.0260	.0000
80.000							-.0564	-.0757	-.0651
90.000	-.1739	-.1360	-.0915	-.0785	.0039	.0000	-.0598	-.0828	-.0788
100.000	-.1245	-.0754	-.0555	-.0213	-.0374	-.0751			
110.000	-.0788	-.0294	.0258	.0446	.0032	-.1083			
120.000						-.1599			
130.000						-.0400			
140.000						-.0819			
150.000						.0060			
160.000						.0962			
170.000						.1786			
180.000	.0382	.0925	.1237	.1657	.2079	.1950			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .651 ALPHA (7) = 4.084

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0170	-.0525	-.1600												
70.000	.0593	-.0228	-.1396												
80.000	.0254	-.0483	-.1345												
90.000			-.1567	-.3378	-.3911	-.2539	-.1747	-.1453	-.1363	-.1514	-.1172	-.1159	-.0876	-.0784	-.1028
100.000						-.2500	-.2172	-.1756	-.1418	-.1198	-.1066	-.1285	-.1037	-.1272	-.0999
110.000						-.3036	-.2498	-.2350	-.1737	-.1353	-.1111	-.1069	-.1008	-.1362	-.1121
120.000						-.2939								.0000	
130.000						-.4082								-.1237	
140.000						-.4059								-.1092	
150.000						-.3430								-.1041	
160.000						-.2833								-.1102	
170.000						-.2846								-.1092	
180.000						-.2562	-.2124	-.1847	-.1669	-.1469	-.1101	-.0918	-.0809	-.0918	-.0738

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6980	.7100
PHI															
90.000	-.0752	-.0708	-.0786	-.0599	-.0496	-.0821	-.0831	-.1015	-.1270	-.1719	-.1791	-.2139	-.2528	-.2260	-.1948
100.000	-.0867	-.1072	-.0927	-.0872	-.0757	-.1023	-.1103	-.1218	-.1198	-.1788	-.1634	-.1870	-.2217	-.2057	-.1796
110.000	.0000	-.0853	-.0962	-.0933	-.0904	-.1123	-.1120	-.1107	-.1195	-.1372	-.1667	-.1860	-.1690	-.1673	-.1638
120.000						-.1007								-.1054	
130.000						-.1172								-.0648	
140.000						-.1031								-.0465	
150.000						-.0726								-.0347	
160.000						-.0707								-.0285	
170.000						-.0717								-.0291	
180.000	-.0789	-.0583	-.0692	-.0695	-.0618	-.0540	-.0802	-.0812	-.0831	-.0684	-.0674	-.0579	-.0406	-.0170	.1047

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0010		
70.000							-.0429	-.0233	.0000
80.000							-.0485	-.0615	-.0485
90.000	-.2097	-.1384	-.0962	-.0698	.0018	.0000	-.0444	-.0829	-.0668
100.000	-.1411	-.0894	-.0556	-.0152	-.0363	-.0680			
110.000	-.1123	-.0478	.0194	.0431	.0061	-.0885			
120.000						-.1316			
130.000						-.0361			
140.000						-.1083			
150.000						-.0147			
160.000						.0807			
170.000						.1457			
180.000	.0289	.0656	.1038	.1429	.1944	.1663			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .600 ALPHA (8) = 6.204

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0284	-.0912	-.1534												
70.000	.0395	-.0330	-.1318												
80.000	-.0010	-.0840	-.1377												
90.000			-.1602	-.3263	-.3987	-.2548	-.1923	-.1636	-.1389	-.1679	-.1372	-.1258	-.1001	-.0916	-.1235
100.000						-.2741	-.2380	-.1998	-.1646	-.1398	-.1177	-.1428	-.1066	-.1482	-.1141
110.000						-.2904	-.2696	-.2422	-.1839	-.1646	-.1369	-.1384	-.1186	-.1521	-.1238
120.000						-.2998								.0000	
130.000						-.4617								-.1362	
140.000						-.4382								-.1235	
150.000						-.3501								-.1222	
160.000						-.2969								-.1173	
170.000						-.2927								-.1024	
180.000						-.2689	-.2243	-.1845	-.1653	-.1379	-.1239	-.0988	-.0926	-.0955	-.0858

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0923	-.0831	-.0880	-.0766	-.0805	-.0945	-.1074	-.1299	-.1471	-.2073	-.2178	-.2562	-.2879	-.2773	-.2297
100.000	-.1098	-.1260	-.1110	-.1026	-.0935	-.1318	-.1355	-.1524	-.1405	-.2292	-.2055	-.2466	-.2608	-.2218	-.2075
110.000	.0000	-.1240	-.1098	-.1179	-.1250	-.1455	-.1332	-.1474	-.1620	-.1881	-.1999	-.2188	-.2075	-.2079	-.1874
120.000						-.1299								-.1252	
130.000						-.1342								-.0911	
140.000						-.1160								-.0679	
150.000						-.0835								-.0501	
160.000						-.0815								-.0391	
170.000						-.0736								-.0345	
180.000	-.0919	-.0721	-.0705	-.0763	-.0675	-.0729	-.0739	-.0928	-.0915	-.1001	-.0792	-.0679	-.0504	-.0266	.0951

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0057		
70.000							-.0308	-.0220	.0000
80.000							-.0536	-.0756	-.0411
90.000	-.2266	-.1633	-.1065	-.0811	-.0049	.0000	-.0314	-.0900	-.0706
100.000	-.1783	-.1062	-.0664	-.0281	-.0479	-.0627			
110.000	-.1283	-.0579	.0207	.0534	.0168	-.0831			
120.000						-.1244			
130.000						-.0521			
140.000						-.1451			
150.000						-.0333			
160.000						.0529			
170.000						.1198			
180.000	.0104	.0546	.0942	.1281	.1674	.1524			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB010)

MACH (1) = .600 ALPHA (9) = 8.292

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0307	-.0522	-.1570												
70.000	.0143	-.0157	-.1341												
80.000	-.0245	-.0627	-.1341												
90.000			-.1455	-.3276	-.3987	-.2532	-.1968	-.1687	-.1462	-.1883	-.1566	-.1442	-.1121	-.1128	-.1316
100.000						-.2734	-.2477	-.2131	-.1664	-.1576	-.1361	-.1547	-.1336	-.1797	-.1287
110.000						-.3012	-.2797	-.2705	-.1984	-.1632	-.1508	-.1300	-.1352	-.1690	-.1394
120.000						-.3432								.0000	
130.000						-.5041								-.1417	
140.000						-.4649								-.1251	
150.000						-.3648								-.1209	
160.000						-.3103								-.1251	
170.000						-.2888								-.1089	
180.000						-.2698	-.2177	-.1801	-.1694	-.1531	-.1296	-.1060	-.0858	-.0962	-.0748

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0856	-.1070	-.1141	-.0917	-.0907	-.1248	-.1256	-.1574	-.1829	-.2332	-.2630	-.2922	-.3160	-.3044	-.2468
100.000	-.1229	-.1450	-.1313	-.1242	-.1213	-.1574	-.1590	-.1650	-.1796	-.2620	-.2220	-.2832	-.2822	-.2481	-.2230
110.000	.0000	-.1291	-.1349	-.1531	-.1606	-.1717	-.1756	-.1839	-.1862	-.2186	-.2385	-.2600	-.2501	-.2200	-.2013
120.000						-.1619								-.1591	
130.000						-.1339								-.1120	
140.000						-.1299								-.0922	
150.000						-.0961								-.0654	
160.000						-.0875								-.0663	
170.000						-.0806								-.0524	
180.000	-.0826	-.0823	-.0821	-.0787	-.0771	-.0667	-.0789	-.1008	-.1084	-.0975	-.0955	-.0875	-.0574	-.0438	.0937

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0074		
70.000							-.0393	-.0255	.0000
80.000							-.0333	-.0678	-.0424
90.000	-.2455	-.1841	-.1252	-.0832	-.0057	.0000	-.0484	-.0634	-.0597
100.000	-.1819	.1045	-.0800	-.0324	-.0437	-.0546			
110.000	-.1414	-.0794	.0059	.0585	.0174	-.0672			
120.000						-.1026			
130.000						-.0696			
140.000						-.1609			
150.000						-.0327			
160.000						.0355			
170.000						.0722			
180.000	.0102	.0560	.0784	.1167	.1690	.1653			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = .749 ALPHA (1) = -8.491

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0015	-.0744	-.3215												
70.000	.1016	-.0439	-.2197												
80.000	.1543	-.0804	-.2197												
90.000			-.2933	-.4592	-.4701	-.2549	-.1539	-.1225	-.0894	-.0841	-.0596	-.0575	.0093	-.0182	-.0228
100.000						-.2561	-.2133	-.1565	-.0892	-.0587	-.0487	-.0484	-.0047	-.0509	-.0261
110.000						-.4482	-.2878	-.2193	-.1243	-.0778	-.0447	-.0486	-.0240	-.0463	-.0217
120.000						-.2451								.0000	
130.000						-.2673								-.0449	
140.000						-.2710								-.0384	
150.000						-.2300								-.0488	
160.000						-.1964								-.0600	
170.000						-.2244								-.0607	
180.000						-.1885	-.1260	-.1106	-.1136	-.0894	-.0720	-.0419	-.0217	-.0407	-.0228

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0011	.0212	.0231	.0489	.0806	.0636	.0835	.0727	.0626	.0481	.0330	.0163	.0026	-.0064	-.0043
100.000	-.0175	.0000	.0219	.0221	.0541	.0401	.0406	.0563	.0635	.0345	.0481	.0310	.0114	.0235	.0124
110.000	.0000	.0024	.0109	.0214	.0366	.0326	.0397	.0479	.0514	.0448	.0366	.0226	.0294	.0283	.0058
120.000						.0408								.0415	
130.000						.0001								.0640	
140.000						.0130								.0612	
150.000						.0460								.0743	
160.000						.0338								.0745	
170.000						.0380								.0733	
180.000	-.0239	.0010	.0207	.0126	.0179	.0271	.0058	-.0027	.0034	-.0032	.0296	.0467	.0476	.0743	.2510

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0099		
70.000							-.0225	-.0601	.0000
80.000							-.0395	-.1055	-.0825
90.000	-.0148	-.0103	.0038	-.0258	.0567	.0000	-.0498	-.1042	-.0977
100.000	-.0090	.0271	.0231	.0269	-.0461	-.0612			
110.000	.0393	.0540	.0640	.0536	-.0057	-.1646			
120.000						-.2859			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .749 ALPHA (1) = -8.491

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.0559			
140.000						.1086			
150.000						.1807			
160.000						.2344			
170.000						.3596			
180.000	.0567	.1874	.2498	.3021	.3742	.3258			

MACH (1) = .752 ALPHA (2) = -6.358

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0088	-.0772	-.2855												
70.000	.0935	-.0512	-.2182												
80.000	.1264	-.0647	-.2138												
90.000			-.2811	-.4401	-.4747	-.2384	-.1752	-.1291	-.0943	-.1159	-.0776	-.0556	-.0202	-.0138	-.0429
100.000						-.2419	-.2193	-.1629	-.1152	-.0804	-.0519	-.0625	-.0450	-.0628	-.0334
110.000						-.3916	-.2935	-.2216	-.1274	-.0848	-.0556	-.0422	-.0330	-.0512	-.0249
120.000						-.2704								.0000	
130.000						-.3090								-.0489	
140.000						-.2890								-.0649	
150.000						-.2360								-.0501	
160.000						-.2291								-.0686	
170.000						-.2193								-.0510	
180.000						-.1919	-.1537	-.1486	-.1175	-.1149	-.0737	-.0651	-.0519	-.0602	-.0357

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0138	-.0033	.0103	.0293	.0358	.0426	.0588	.0502	.0588	.0177	.0004	-.0309	-.0518	-.0695	-.0487
100.000	-.0164	-.0082	-.0112	.0133	.0210	.0284	.0194	.0236	.0341	.0028	.0072	-.0297	-.0380	-.0293	-.0357
110.000	.0000	-.0163	.0031	-.0080	.0043	.0242	.0224	.0369	.0238	.0320	.0013	-.0213	-.0147	-.0222	-.0212
120.000						.0233								.0065	
130.000						-.0081								.0226	
140.000						-.0147								.0343	
150.000						.0126								.0427	
160.000						.0018								.0562	
170.000						.0108								.0520	
180.000	-.3398	-.0241	-.0098	-.0200	-.0084	-.0043	-.0097	-.0180	-.0168	-.0104	.0093	.0075	.0413	.0569	.2172

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 46-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .752 ALPHA (2) = -6.358

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0218		
70.000							-.0363	-.0753	.0000
80.000							-.0606	-.0993	-.0806
90.000	-.0643	-.0435	-.0080	-.0350	.0523	.0000	-.0699	-.1056	-.0869
100.000	-.0174	.0102	.0118	.0158	-.0350	-.0909			
110.000	.0280	.0335	.0767	.0519	-.0356	-.1907			
120.000						-.2879			
130.000						-.0521			
140.000						.0577			
150.000						.1426			
160.000						.2115			
170.000						.3288			
180.000	.1040	.1625	.2207	.2715	.3365	.3009			

MACH (1) = .747 ALPHA (3) = -4.291

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0072	-.0678	-.2527												
70.000	.0953	-.0273	-.2022												
80.000	.1021	-.0640	-.1884												
90.000			-.2499	-.4229	-.4620	-.2583	-.1675	-.1266	-.0981	-.1173	-.0792	-.0724	-.0431	-.0282	-.0538
100.000						-.2588	-.2063	-.1673	-.1159	-.0862	-.0651	-.0808	-.0510	-.0822	-.0494
110.000						-.3748	-.2753	-.2154	-.1355	-.0897	-.0630	-.0647	-.0435	-.0706	-.0433
120.000						-.2642								.0000	
130.000						-.3179								-.0640	
140.000						-.3126								-.0664	
150.000						-.2660								-.0808	
160.000						-.2420								-.0822	
170.000						-.2401								-.0752	
180.000						-.2102	-.1694	-.1493	-.1346	-.1194	-.0862	-.0836	-.0650	-.0650	-.0535

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0230	-.0117	-.0057	.0078	.0230	.0202	.0261	.0176	.0073	-.0276	-.0317	-.0659	-.1046	-.1055	-.0966
100.000	-.0398	-.0350	-.0252	-.0064	.0094	.0062	-.0053	.0080	-.0010	-.0404	-.0156	-.0533	-.0880	-.0808	-.0805
110.000	.0000	-.0173	-.0159	-.0106	.0022	-.0092	-.0048	-.0036	-.0017	-.0079	-.0305	-.0481	-.0543	-.0550	-.0661
120.000						-.0041								-.0196	
130.000						-.0404								.0074	
140.000						-.0359								.0074	
150.000						-.0107								.0232	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .747 ALPHA (3) = -4.291

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0243								.0284	
170.000						-.0169								.0218	
180.000	-.0427	-.0376	-.0332	-.0299	-.0234	-.0269	-.0345	-.0340	-.0411	-.0364	-.0099	-.0151	.0058	.0315	.1809

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0207		
70.000							-.0483	-.0537	.0000
80.000							-.0679	-.0931	-.0724
90.000	-.1047	-.0787	-.0519	-.0475	.0319	.0000	-.0661	-.1048	-.0859
100.000	-.0600	-.0275	-.0081	-.0066	-.0524	-.0922			
110.000	-.0108	.0212	.0591	.0453	-.0268	-.1663			
120.000						-.2533			
130.000						-.0310			
140.000						.0289			
150.000						.1073			
160.000						.1796			
170.000						.2981			
180.000	.0798	.1486	.1943	.2420	.3200	.2682			

MACH (1) = .751 ALPHA (4) = -2.137

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0055	-.0577	-.2563												
70.000	.0862	-.0257	-.1832												
80.000	.0968	-.0577	-.1769												
90.000			-.2129	-.4106	-.4682	-.2603	-.1846	-.1379	-.1094	-.1247	-.0908	-.0792	-.0528	-.0471	-.0725
100.000						-.2654	-.2271	-.1823	-.1215	-.0994	-.0704	-.0948	-.0639	-.0931	-.0679
110.000						-.3588	-.2728	-.2148	-.1405	-.1038	-.0760	-.0679	-.0600	-.0811	-.0540
120.000						-.2793								.0000	
130.000						-.3602								-.0748	
140.000						-.3583								-.0885	
150.000						-.2940								-.0843	
160.000						-.2640								-.0906	
170.000						-.2631								-.0887	
180.000						-.2324	-.1721	-.1567	-.1386	-.1284	-.1048	-.0829	-.0764	-.0843	-.0584

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .751 ALPHA (4) = -2.137

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0378	-.0319	-.0190	-.0123	-.0019	-.0116	.0059	-.0082	-.0320	-.0558	-.0736	-.1146	-.1462	-.1518	-.1319
100.000	-.0545	-.0555	-.0474	-.0292	-.0139	-.0255	-.0294	-.0297	-.0306	-.0789	-.0672	-.1151	-.1365	-.1181	-.1201
110.000	.0000	-.0345	-.0239	-.0299	-.0208	-.0306	-.0315	-.0235	-.0320	-.0476	-.0741	-.0891	-.0924	-.0884	-.1053
120.000						-.0273								-.0510	
130.000						-.0523								-.0208	
140.000						-.0506								-.0118	
150.000						-.0249								-.0078	
160.000						-.0334								.0028	
170.000						-.0327								.0011	
180.000	-.0894	-.0565	-.0442	-.0458	-.0308	-.0355	-.0504	-.0579	-.0603	-.0542	-.0356	-.0215	-.0156	.0141	.1576

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0145		
70.000							-.0533	-.0531	.0000
80.000							-.0736	-.0902	-.0707
90.000	-.1549	-.1080	-.0860	-.0674	.0101	.0000	-.0761	-.0973	-.0808
100.000	-.0937	-.0517	-.0334	-.0274	-.0736	-.1071			
110.000	-.0522	-.0124	.0300	.0418	-.0259	-.1604			
120.000						-.2325			
130.000						-.0362			
140.000						-.0038			
150.000						.0816			
160.000						.1545			
170.000						.2575			
180.000	.0873	.1215	.1692	.2153	.2754	.2240			

MACH (1) = .750 ALPHA (5) = -.094

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0045	-.0536	-.2338												
70.000	.0744	-.0210	-.1745												
80.000	.0735	-.0450	-.1706												
90.000			-.2022	-.4145	-.4922	-.2715	-.1934	-.1651	-.1199	-.1443	-.1150	-.0941	-.0682	-.0620	-.0759
100.000						-.2717	-.2309	-.1939	-.1450	-.1153	-.0864	-.1115	-.0731	-.1123	-.0747
110.000						-.3468	-.2753	-.2348	-.1627	-.1288	-.0927	-.0819	-.0719	-.0960	-.0596
120.000						-.2922								.0000	
130.000						-.3896								-.0926	
140.000						-.3882								-.1030	
150.000						-.3106								-.0907	

AMES 66-630 PRESSURE MAPPING - INTEG. VEHICLE (REB011)

MACH (1) = .750 ALPHA (3) = -.034

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.2980								-.0986	
170.000						-.3008								-.0937	
160.000						-.2673	-.1886	-.1546	-.1430	-.1264	-.1083	-.0944	-.0703	-.0800	-.0631

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0478	-.0490	-.0460	-.0350	-.0260	-.0295	-.0250	-.0298	-.0616	-.0973	-.1276	-.1764	-.2010	-.2126	-.1793
100.000	-.0831	-.0733	-.0643	-.0481	-.0286	-.0543	-.0550	-.0654	-.0442	-.1037	-.1063	-.1571	-.1897	-.1705	-.1511
110.000	.0000	-.0634	-.0485	-.0580	-.0515	-.0668	-.0595	-.0503	-.0633	-.0789	-.1115	-.1450	-.1401	-.1498	-.1415
120.000						-.0569								-.0886	
130.000						-.0725								-.0579	
140.000						-.0697								-.0463	
150.000						-.0446								-.0222	
160.000						-.0468								-.0229	
170.000						-.0510								-.0239	
180.000	-.0777	-.0629	-.0569	-.0578	-.0515	-.0392	-.0668	-.0760	-.0758	-.0694	-.0557	-.0520	-.0368	-.0066	.1315

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0286		
70.000							-.0633	-.0606	.0000
60.000							-.0745	-.0973	-.0704
90.000	-.1978	-.1375	-.0865	-.0773	.0094	.0000	-.0738	-.0955	-.0827
100.000	-.1366	-.0852	-.0581	-.0335	-.0753	-.1087			
110.000	-.0912	-.0282	.0247	.0396	-.0340	-.1769			
120.000						-.2127			
130.000						-.0499			
140.000						-.0436			
150.000						.0432			
160.000						.1120			
170.000						.2106			
180.000	.0254	.0962	.1513	.1928	.2406	.1878			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .749 ALPHA (6) = 2.162

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0023	-.0603	-.1901												
70.000	.0609	-.0247	-.1626												
80.000	.0490	-.0533	-.1551												
90.000			-.1606	-.3970	-.4820	-.2786	-.1993	-.1655	-.1310	-.1508	-.1194	-.0994	-.0798	-.0684	-.0993
100.000						-.2742	-.2356	-.2025	-.1450	-.1161	-.0984	-.1131	-.0884	-.1193	-.0858
110.000						-.3367	-.2915	-.2421	-.1708	-.1303	-.1059	-.0858	-.0923	-.1169	-.0877
120.000						-.3033								.0000	
130.000						-.4424								-.1086	
140.000						-.4310								-.1046	
150.000						-.3634								-.1030	
160.000						-.3706								-.1039	
170.000						-.3648								-.1037	
180.000						-.3334	-.2323	-.1511	-.1250	-.1161	-.0945	-.0926	-.0865	-.0819	-.0777

X/L	.4900	.4680	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0815	-.0804	-.0502	-.0444	-.0305	-.0609	-.0469	-.0649	-.0923	-.1342	-.1686	-.2196	-.2546	-.2662	-.2235
100.000	-.0783	-.0868	-.0778	-.0542	-.0444	-.0671	-.0777	-.0909	-.0769	-.1661	-.1424	-.2068	-.2303	-.2029	-.2029
110.000	.0000	-.0725	-.0644	-.0776	-.0697	-.0755	-.0831	-.0838	-.1049	-.1287	-.1549	-.1811	-.1858	-.1778	-.1809
120.000						-.0759								-.1166	
130.000						-.0933								-.0850	
140.000						-.0909								-.0661	
150.000						-.0670								-.0498	
160.000						-.0696								-.0394	
170.000						-.0578								-.0261	
180.000	-.0713	-.0704	-.0579	-.0553	-.0574	-.0554	-.0720	-.0791	-.0836	-.0833	-.0750	-.0684	-.0457	-.0292	.1084

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0234		
70.000							-.0533	-.0424	.0000
80.000							-.0659	-.0907	-.0451
90.000	-.2522	-.1702	-.1104	-.1952	-.0125	.0000	-.0726	-.0950	-.0746
100.000	-.1650	-.0992	-.0645	-.0425	-.0854	-.0986			
110.000	-.1086	-.0526	.0145	.0456	-.0332	-.1670			
120.000						-.2026			
130.000						-.0446			
140.000						-.0876			
150.000						.0129			
160.000						.0949			
170.000						.1665			
180.000	.0270	.0732	.1348	.1622	.2167	.1598			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .948 ALPHA (7) = 4.225

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0139	-.0370	-.1847												
70.000	.0492	-.0230	-.1372												
80.000	.0333	-.0500	-.1490												
90.000			-.1726	-.3831	-.4942	-.2823	-.2081	-.1776	-.1442	-.1715	-.1421	-.1145	-.0870	-.0788	-.1040
100.000						-.2800	-.2467	-.2136	-.1528	-.1304	-.1068	-.1351	-.1028	-.1266	-.0972
110.000						-.3488	-.2848	-.2605	-.1942	-.1573	-.1283	-.1091	-.0988	-.1277	-.1040
120.000						-.3334								.0000	
130.000						-.4954								-.1147	
140.000						-.4875								-.1107	
150.000						-.4546								-.1079	
160.000						-.4620								-.1009	
170.000						-.4816								-.0972	
180.000						-.4651	-.2780	-.1743	-.1243	-.1075	-.0961	-.0898	-.0761	-.0751	-.0879

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0737	-.0866	-.0703	-.0582	-.0606	-.0796	-.0647	-.0919	-.1108	-.1779	-.1962	-.2673	-.3149	-.3168	-.2509
100.000	-.0807	-.0992	-.0957	-.0801	-.0701	-.0999	-.0973	-.1139	-.1066	-.1866	-.1796	-.2445	-.2794	-.2488	-.2423
110.000	.0000	-.0978	-.0969	-.1003	-.0994	-.1027	-.1061	-.1063	-.1291	-.1494	-.1858	-.2346	-.2329	-.2310	-.2105
120.000						-.1110								-.1455	
130.000						-.1030								-.1178	
140.000						-.1082								-.0877	
150.000						-.0760								-.0611	
160.000						-.0800								-.0621	
170.000						-.0578								-.0550	
180.000	-.0894	-.0701	-.0629	-.0640	-.0657	-.0675	-.0827	-.0876	-.0924	-.0836	-.0905	-.0857	-.0687	-.0453	.0962

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0176		
70.000							-.0446	-.0410	.0000
80.000							-.0679	-.0834	-.0423
90.000	-.2605	-.1865	-.1221	-.0952	-.0136	.0000	-.0713	-.0895	-.0657
100.000	-.2013	-.1313	-.0822	-.0338	-.0564	-.1032			
110.000	-.1468	-.0654	.0093	.0403	-.0185	-.1499			
120.000						-.1743			
130.000						-.0486			
140.000						-.1036			
150.000						-.0138			
160.000						.0700			
170.000						.1201			
180.000	-.0316	.0579	.1087	.1412	.1950	.1400			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1AZ9/0463

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (1) = .752 ALPHA (0) = 6.374

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0260	-.0626	-.1663												
70.000	.0325	-.0350	-.1502												
80.000	.0070	-.0598	-.1278												
90.000			-.1417	-.3734	-.4969	-.2911	-.2219	-.1888	-.1508	-.1856	-.1541	-.1346	-.0889	-.0864	-.1233
100.000						-.3037	-.2657	-.2412	-.1756	-.1582	-.1193	-.1547	-.1097	-.1596	-.1046
110.000						-.3461	-.2995	-.2766	-.2157	-.1693	-.1397	-.1361	-.1247	-.1529	-.1164
120.000						-.3645								.0000	
130.000						-.5431								-.1289	
140.000						-.5415								-.1099	
150.000						-.5292								-.1178	
160.000						-.5797								-.0940	
170.000						-.5958								-.0921	
180.000						-.5974	-.3945	-.2157	-.1464	-.1100	-.0820	-.0774	-.0709	-.0697	-.0663

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0780	-.0743	-.0789	-.0732	-.0899	-.0909	-.0777	-.1116	-.1483	-.2072	-.2508	-.3242	-.3609	-.3604	-.2942
00.000	-.1000	-.1184	-.1011	-.0962	-.0900	-.1198	-.1299	-.1377	-.1394	-.2213	-.2318	-.3067	-.3322	-.3016	-.2764
10.000	.0000	-.1219	-.0979	-.1210	-.1193	-.1339	-.1382	-.1403	-.1660	-.1919	-.2393	-.2781	-.2816	-.2743	-.2496
120.000						-.1313								-.1812	
130.000						-.1344								-.1325	
140.000						-.1153								-.1139	
150.000						-.0852								-.0923	
160.000						-.0873								-.0813	
170.000						-.0788								-.0777	
180.000	-.0785	-.0845	-.0722	-.0762	-.0899	-.0769	-.0885	-.0918	-.1087	-.1076	-.1116	-.0878	-.0996	-.0622	.0958

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0086		
90.000							-.0480	-.0358	.0000
00.000							-.0596	-.0812	-.0460
10.000	-.3038	-.2238	-.1371	-.1174	-.0236	.0000	-.0669	-.0674	-.0591
100.000	-.2325	-.1571	-.0880	-.0497	-.0599	-.1019			
110.000	-.1692	-.0909	-.0011	.0324	-.0211	-.1402			
120.000						-.1567			
130.000						-.0480			
140.000						-.1409			
150.000						-.0242			
160.000						.0504			
170.000						.0825			
180.000	-.0029	.0409	.0838	.1252	.1624	.1298			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (I) = .751 ALPHA (9) = 8.535

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0362	-.0832	-.1941												
90.000	.0186	-.0211	-.1241												
95.000	-.0197	-.0581	-.1355												
99.000			-.1522	-.3617	-.5043	-.3050	-.2399	-.1894	-.1784	-.2094	-.1704	-.1378	-.1069	-.1041	-.1343
100.000						-.2999	-.2638	-.2473	-.1687	-.1629	-.1515	-.1729	-.1308	-.1565	-.1199
110.000						-.3308	-.3147	-.3026	-.2403	-.1948	-.1634	-.1468	-.1401	-.1813	-.1454
120.000						-.4050								.0000	
130.000						-.3778								-.1347	
140.000						-.5657								-.1192	
150.000						-.5652								-.1204	
160.000						-.6119								-.1037	
170.000						-.6592								-.0851	
180.000						-.6592	-.3840	-.2961	-.1711	-.1901	-.0841	-.0775	-.0629	-.0747	-.0660

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1018	-.0982	-.1013	-.0830	-.0789	-.1085	-.0997	-.1290	-.1748	-.2373	-.2846	-.3671	-.4249	-.4195	-.3410
100.000	-.1162	-.1226	-.1222	-.1016	-.1002	-.1400	-.1441	-.1653	-.1731	-.2730	-.2563	-.3544	-.3855	-.3577	-.3220
110.000	.0000	-.1321	-.1295	-.1393	-.1462	-.1527	-.1651	-.1767	-.1989	-.2310	-.2808	-.3218	-.3244	-.3124	-.2883
120.000						-.1606								-.1930	
130.000						-.1441								-.1555	
140.000						-.1358								-.1355	
150.000						-.1047								-.1166	
160.000						-.1025								-.1116	
170.000						-.0841								-.0989	
180.000	-.0710	-.0828	-.0689	-.0853	-.0823	-.0846	-.0997	-.1082	-.1332	-.1295	-.1112	-.1135	-.0890	-.0972	.0902

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0251		
90.000							-.0588	-.0539	.0000
95.000							-.0875	-.0997	-.0461
99.000	-.3482	-.2438	-.1375	-.1245	-.0351	.0000	-.0733	-.0968	-.0656
100.000	-.2742	-.1832	-.0997	-.0599	-.0713	-.0908			
110.000	-.2065	-.0967	-.0051	.0223	-.0311	-.1395			
120.000						-.1383			
130.000						-.0514			
140.000						-.1640			
150.000						-.0528			
160.000						.0257			
170.000						.0552			
180.000	-.0775	.0207	.0718	.0978	.1675	.1440			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .650 ALPHA (1) = -8.370

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0423	-.0597	-.3522												
70.000	.1468	-.0100	-.2555												
80.000	.1653	-.0529	-.2496												
90.000			-.3182	-.5878	-.9108	-.3186	-.2223	-.0929	-.0544	-.0683	-.0441	-.0274	-.0173	.0016	-.0093
100.000						-.3735	-.2678	-.1409	-.0761	-.0470	-.0298	-.0522	-.0245	-.0227	-.0177
110.000						-.4336	-.3054	-.1718	-.1070	-.0839	-.0435	-.0396	-.0121	-.0362	-.0177
120.000						-.2825								.0000	
130.000						-.3968								-.0433	
140.000						-.3265								-.0336	
150.000						-.2709								-.0342	
160.000						-.1727								-.0414	
170.000						-.1810								-.0405	
180.000						-.1468	-.0959	-.1064	-.0983	-.0963	-.0639	-.0338	-.0275	-.0225	-.0264

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0118	.0140	.0454	.0626	.0584	.0763	.0968	.0925	.0979	.0686	.0603	.0291	-.0035	-.0076	.0085
100.000	.0124	-.0088	.0022	.0410	.0591	.0508	.0700	.0700	.0997	.0367	.0651	.0319	.0035	.0367	.0155
110.000	.0000	.0164	.0229	.0220	.0502	.0578	.0724	.0734	.0866	.0726	.0400	.0535	.0489	.0236	.0180
120.000						.0408								.0531	
130.000						.0168								.0708	
140.000						.0271								.0760	
150.000						.0315								.0671	
160.000						.0363								.0741	
170.000						.0424								.0760	
180.000	-.0255	.0050	.0050	.0168	.0277	.0372	.0238	.0179	.0028	.0297	.0341	.0343	.0612	.0767	.2661

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0353		
70.000							-.0479	-.0803	.0000
80.000							-.0907	-.1277	-.1110
90.000	-.0181	.0018	.0139	-.0016	.0816	.0000	-.0817	-.1395	-.1282
100.000	.0178	.0463	.0533	.0203	-.0365	-.1221			
110.000	.0567	.0700	.0887	.0689	-.0255	-.2177			
120.000						-.3030			
130.000						-.0111			
140.000						.1294			
150.000						.1932			
160.000						.2511			
170.000						.3768			
180.000	.1086	.2035	.2781	.3234	.4040	.3479			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .851 ALPHA (2) = -6.235

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0432	-.0614	-.3653												
70.000	.1277	-.0166	-.2658												
80.000	.1507	-.0483	-.2414												
90.000			-.2864	-.5627	-.8795	-.4068	-.1555	-.0967	-.0615	-.0876	-.0543	-.0524	-.0196	-.0222	-.0417
100.000						-.4295	-.2554	-.1234	-.0741	-.0548	-.0372	-.0604	-.0310	-.0581	-.0282
110.000						-.5097	-.2949	-.1672	-.1112	-.0704	-.0537	-.0391	-.0375	-.0436	-.0278
120.000						-.7988								.0000	
130.000						-.7134								-.0469	
140.000						-.4518								-.0555	
150.000						-.3986								-.0564	
160.000						-.3066								-.0560	
170.000						-.2127								-.0607	
180.000						-.2294	-.0908	-.0973	-.0917	-.0921	-.0648	-.0570	-.0495	-.0492	-.0321

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	.0078	-.0035	.0191	.0256	.0576	.0472	.0584	.0693	.0578	.0316	.0355	-.0130	-.0535	-.0707	-.0560
100.000	-.0129	-.0208	-.0022	.0191	.0380	.0326	.0298	.0429	.0615	.0117	.0219	-.0121	-.0425	-.0266	-.0470
110.000	.0000	.0004	.0082	-.0056	.0195	.0200	.0379	.0414	.0322	.0390	.0051	-.0013	-.0246	-.0119	-.0257
120.000						.0202								.0147	
130.000						-.0034								.0293	
140.000						-.0105								.0485	
150.000						.0128								.0444	
160.000						.0102								.0455	
170.000						.0045								.0457	
180.000	-.0400	-.0242	-.0085	-.0143	.0021	-.0028	-.0085	-.0065	-.0100	-.0142	.0055	.0099	.0333	.0466	.2281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0677		
70.000							-.0663	-.0947	.0000
80.000							-.0934	-.1141	-.1109
90.000	-.0735	-.0449	-.0345	-.0524	.0590	.0000	-.0986	-.1285	-.1258
100.000	-.0169	.0077	.0075	.0123	-.0671	-.1423			
110.000	.0158	.0532	.0739	.0592	-.0258	-.2103			
120.000						-.2852			
130.000						-.0158			
140.000						.0816			
150.000						.1548			
160.000						.2136			
170.000						.3247			
180.000	.0588	.1785	.2486	.2961	.3672	.3216			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .848 ALPHA (3) = -4.221

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0335	-.0675	-.3588												
70.000	.1107	-.0289	-.2544												
80.000	.1284	-.0475	-.2326			-.4543	-.1801	-.1188	-.0861	-.0987	-.0660	-.0560	-.0338	-.0314	-.0446
90.000			-.2692	-.5633	-.8278	-.4360	-.2172	-.1360	-.0894	-.0691	-.0451	-.0688	-.0459	-.0659	-.0353
100.000						-.6095	-.2778	-.1786	-.1179	-.0802	-.0601	-.0457	-.0440	-.0592	-.0412
110.000						-.7096								.0000	
120.000						-.7835								-.0553	
130.000						-.6058								-.0618	
140.000						-.5343								-.0657	
150.000						-.4048								-.0629	
160.000						-.5921								-.0492	
170.000						-.6150	-.3803	-.0865	-.0933	-.0926	-.0691	-.0414	-.0390	-.0396	-.0438
180.000															

X/L	.4500	.4680	.4860	.5050	.5240	.5450	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0084	-.0151	-.0019	.0143	.0226	.0283	.0436	.0419	.0371	-.0049	-.0122	-.0724	-.1160	-.1218	-.0995
100.000	-.0140	-.0347	-.0245	.0038	.0217	.0097	.0189	.0222	.0314	-.0252	-.0160	-.0529	-.0890	-.0879	-.0817
110.000	.0000	-.0255	-.0153	-.0153	-.0034	-.0008	.0101	.0156	.0143	.0075	-.0219	-.0525	-.0582	-.0715	-.0712
120.000						.0049								-.0186	
130.000						-.0179								-.0109	
140.000						-.0248								.0198	
150.000						-.0040								.0169	
160.000						-.0137								.0174	
170.000						-.0122								.0224	
180.000	-.0377	-.0208	-.0275	-.0358	-.0023	-.0150	-.0230	-.0314	-.0314	-.0201	-.0151	-.0202	.0110	.0263	.1854

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0643		
70.000							-.0995	-.0978	.0000
80.000							-.1167	-.1054	-.0976
90.000	-.1234	-.0846	-.0540	-.0668	.0371	.0000	-.1236	-.1219	-.1092
100.000	-.0737	-.0341	-.0159	-.0207	-.0769	-.1477			
110.000	-.0243	.0181	.0645	.0496	-.0347	-.2257			
120.000						-.2729			
130.000						-.0311			
140.000						.0476			
150.000						.1091			
160.000						.1859			
170.000						.2925			
180.000	-.0050	.1488	.2060	.2624	.3223	.2913			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .850 ALPHA (4) = -2.039

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0293	-.0624	-.3228												
70.000	.1084	-.0132	-.2344												
80.000	.1084	-.0387	-.2089												
90.000			-.2322	-.5094	-.8207	-.5475	-.1835	-.1300	-.1023	-.1119	-.0860	-.0749	-.0481	-.0446	-.0665
100.000						-.5218	-.2118	-.1498	-.1054	-.0819	-.0678	-.0817	-.0628	-.0882	-.0507
110.000						-.7608	-.2477	-.1859	-.1321	-.0967	-.0697	-.0559	-.0478	-.0769	-.0500
120.000						-.7896								.0000	
130.000						-.8401								-.0632	
140.000						-.5967								-.0680	
150.000						-.6248								-.0669	
160.000						-.6258								-.0585	
170.000						-.6313								-.0544	
180.000						-.6981	-.4626	-.3025	-.1519	-.0715	-.0475	-.0368	-.0403	-.0446	-.0394

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0257	-.0211	-.0116	-.0005	.0084	.0045	.0162	.0082	-.0008	-.0404	-.0682	-.1237	-.1791	-.1828	-.1645
100.000	-.0474	-.0432	-.0423	-.0228	.0006	-.0120	-.0117	-.0123	-.0083	-.0662	-.0541	-.1111	-.1444	-.1451	-.1456
110.000	.0000	-.0376	-.0308	-.0280	-.0146	-.0243	-.0172	-.0132	-.0234	-.0285	-.0618	-.0972	-.1091	-.1228	-.1343
120.000						-.0185								-.0663	
130.000						-.0402								-.0411	
140.000						-.0452								-.0281	
150.000						-.0309								-.0133	
160.000						-.0393								-.0097	
170.000						-.0278								-.0106	
180.000	-.0430	-.0380	-.0291	-.0311	-.0334	-.0324	-.0444	-.0415	-.0561	-.0565	-.0318	-.0371	-.0274	-.0013	.1488

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0591		
70.000							-.1029	-.0763	.0000
80.000							-.1219	-.1154	-.0780
90.000	-.1891	-.1423	-.1021	-.0956	.0106	.0000	-.1353	-.1206	-.0899
100.000	-.1264	-.0795	-.0496	-.0437	-.1011	-.1549			
110.000	-.0875	-.0241	.0312	.0426	-.0610	-.2351			
120.000						-.2570			
130.000						-.0366			
140.000						.0099			
150.000						.0761			
160.000						.1551			
170.000						.2511			
180.000	-.0239	.1161	.1700	.2192	.2860	.2230			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .850 ALPHA (5) = .071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0177	-.0517	-.2823												
70.000	.0878	-.0078	-.2181												
80.000	.0932	-.0461	-.1874												
90.000			-.2026	-.4530	-.7995	-.5241	-.2094	-.1498	-.1211	-.1356	-.1465	-.0876	-.0523	-.0528	-.0688
100.000						-.6172	-.2350	-.1737	-.1320	-.1067	-.0869	-.1069	-.0623	-.1045	-.0640
110.000						-.8565	-.2733	-.2072	-.1544	-.1178	-.0889	-.0725	-.0588	-.0850	-.0582
120.000						-.7832								.0000	
130.000						-.8460								-.0634	
140.000						-.6807								-.0744	
150.000						-.6533								-.0673	
160.000						-.6424								-.0595	
170.000						-.6616								-.0525	
180.000						-.7273	-.5408	-.3755	-.2252	-.1330	-.0695	-.0426	-.0337	-.0324	-.0268

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0335	-.0383	-.0348	-.0205	-.0134	-.0157	-.0047	-.0025	-.0351	-.0749	-.1136	-.1752	-.2396	-.2504	-.2326
100.000	-.0554	-.0647	-.0506	-.0387	-.0216	-.0350	-.0343	-.0374	-.0312	-.0908	-.1039	-.1664	-.2078	-.2180	-.2203
110.000	.0000	-.0467	-.0452	-.0422	-.0439	-.0441	-.0307	-.0382	-.0442	-.0729	-.1141	-.1514	-.1677	-.1893	-.1831
120.000						-.0495								-.1240	
130.000						-.0608								-.0947	
140.000						-.0641								-.0640	
150.000						-.0325								-.0528	
160.000						-.0365								-.0457	
170.000						-.0415								-.0450	
180.000	-.0443	-.0409	-.0361	-.0446	-.0413	-.0411	-.0515	-.0577	-.0751	-.0744	-.0642	-.0598	-.0574	-.0272	.1245

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1666		
70.000							-.1195	-.0881	.0000
80.000							-.1318	-.1134	-.0743
90.000	-.2621	-.1862	-.1315	-.1173	-.0057	.0000	-.1462	-.1274	-.0871
100.000	-.1973	-.1282	-.0780	-.0582	-.1261	-.1895			
110.000	-.1382	-.0552	.0077	.0342	-.0666	-.2455			
120.000						-.2623			
130.000						-.0426			
140.000						-.0296			
150.000						.0337			
160.000						.1049			
170.000						.1916			
180.000	-.0945	.0836	.1407	.1888	.2317	.1796			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .850 ALPHA (6) = 2.252

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0017	-.0724	-.2526												
70.000	.5674	-.0182	-.1952												
80.000	.0611	-.0319	-.1790												
90.000			-.1838	-.4313	-.7650	-.4618	-.2155	-.1792	-.1459	-.1570	-.1348	-.1089	-.0814	-.0712	-.0868
100.000						-.5199	-.2479	-.2198	-.1626	-.1326	-.1176	-.1226	-.0872	-.1215	-.0673
110.000						-.7567	-.2727	-.2227	-.2050	-.1637	-.1252	-.0998	-.0842	-.1172	-.0807
120.000						-.7391								.0000	
130.000						-.7134								-.0914	
140.000						-.6218								-.0879	
150.000						-.6544								-.0747	
160.000						-.7069								-.0619	
170.000						-.7090								-.0435	
180.000						-.7151	-.5946	-.5370	-.3621	-.2842	-.1765	-.1063	-.0515	-.0439	-.0233

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0528	-.0484	-.0450	-.0272	-.0244	-.0372	-.0231	-.0320	-.0620	-.1141	-.1475	-.2155	-.2931	-.3079	-.3055
100.000	-.0732	-.0673	-.0667	-.0402	-.0363	-.0504	-.0600	-.0605	-.0587	-.1426	-.1391	-.2142	-.2566	-.2604	-.2806
110.000	.0000	-.0582	-.0484	-.0545	-.0528	-.0684	-.0607	-.0695	-.0744	-.1028	-.1489	-.1950	-.2178	-.2405	-.2649
120.000						-.0641								-.1687	
130.000						-.0770								-.1199	
140.000						-.0744								-.0928	
150.000						-.0547								-.0841	
160.000						-.0510								-.0669	
170.000						-.0443								-.0674	
180.000	-.0285	-.0252	-.0207	-.0317	-.0383	-.0417	-.0549	-.0693	-.0719	-.0940	-.0749	-.0837	-.0616	-.0581	.0916

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0576		
70.000							-.0827	-.0751	.0000
80.000							-.1138	-.0996	-.0657
90.000	-.3619	-.2528	-.1752	-.1311	-.0380	.0000	-.1291	-.1211	-.0963
100.000	-.2908	-.1863	-.1095	-.0686	-.1328	-.1814			
110.000	-.2112	-.1052	-.0178	.0113	-.0733	-.2303			
120.000						-.2360			
130.000						-.0492			
140.000						-.0720			
150.000						-.0040			
160.000						.0756			
170.000						.1400			
180.000	-.1309	.0495	.0993	.1336	.1871	.1549			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .851 ALPHA (7) = 4.400

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0072	-.0804	-.2182												
70.000	.0942	-.0289	-.1728												
80.000	.0324	-.0406	-.1539												
90.00			-.1554	-.4164	-.7370	-.4479	-.2440	-.2008	-.1936	-.2014	-.1595	-.1349	-.1009	-.0881	-.1141
100.000						-.5590	-.2616	-.2429	-.2119	-.1710	-.1502	-.1545	-.1219	-.1414	-.0965
110.000						-.6959	-.2810	-.3149	-.2501	-.2017	-.1643	-.1422	-.1167	-.1450	-.0950
120.000						-.6562								.0000	
130.000						-.6272								-.1284	
140.000						-.6238								-.1119	
150.000						-.6509								-.1017	
160.000						-.6890								-.0987	
170.000						-.6981								-.0742	
180.000						-.6957	-.6589	-.5939	-.5109	-.3901	-.2703	-.1569	-.1169	-.0736	-.0275

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0686	-.0522	-.0537	-.0394	-.0320	-.0472	-.0325	-.0481	-.0812	-.1392	-.1867	-.2617	-.3445	-.3612	-.3586
100.000	-.0781	-.0827	-.0675	-.0667	-.0433	-.0597	-.0623	-.0790	-.0784	-.1666	-.1700	-.2540	-.3200	-.3107	-.3441
110.000	.0000	-.0769	-.0730	-.0688	-.0701	-.0814	-.0801	-.0848	-.1044	-.1370	-.1744	-.2355	-.2653	-.2966	-.3057
120.000						-.0782								-.1933	
130.000						-.0885								-.1430	
140.000						-.0821								-.1309	
150.000						-.0623								-.1073	
160.000						-.0539								-.0910	
170.000						-.0402								-.0839	
180.000	-.0221	-.0236	-.0195	-.0192	-.0357	-.0407	-.0579	-.0779	-.0883	-.0890	-.0899	-.0881	-.0934	-.0667	.0797

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0463		
70.000							-.1017	-.0716	.0000
80.000							-.1287	-.1144	-.0676
90.000	-.4427	-.3166	-.1980	-.1449	-.0522	.0000	-.1387	-.1209	-.0800
100.000	-.3613	-.2193	-.1478	-.0800	-.1128	-.1694			
110.000	-.2861	-.1487	-.0355	-.0125	-.0994	-.2289			
120.000						-.2229			
130.000						-.0532			
140.000						-.1099			
150.000						-.0348			
160.000						.0298			
170.000						.0850			
180.000	-.1103	.0276	.0716	.1033	.1559	.1302			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (Z) = .859 ALPHA (B) = 6.548

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0271	-.0739	-.2074												
70.000	.0238	-.0269	-.1501												
80.000	.0090	-.0563	-.1305												
90.000			-.1366	-.3815	-.7163	-.3896	-.2284	-.2012	-.2054	-.2145	-.1825	-.1636	-.1174	-.1079	-.1163
100.000						-.4734	-.2687	-.2639	-.2289	-.1956	-.1567	-.1738	-.1259	-.1671	-.1178
110.000						-.5570	-.2889	-.3417	-.2793	-.2304	-.1854	-.1762	-.1343	-.1720	-.1200
120.000						-.6171								.0000	
130.000						-.5946								-.1443	
140.000						-.6340								-.1471	
150.000						-.6652								-.1287	
160.000						-.6967								-.1144	
170.000						-.7107								-.0818	
180.000						-.7124	-.6592	-.6181	-.5305	-.4248	-.3261	-.2093	-.1373	-.1020	-.0341

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0851	-.0731	-.0716	-.0447	-.0419	-.0579	-.0481	-.0638	-.1016	-.1623	-.2048	-.2882	-.3867	-.4001	-.4116
100.000	-.1040	-.0863	-.0883	-.0677	-.0577	-.0848	-.0830	-.1051	-.1053	-.1968	-.1997	-.2873	-.3564	-.3566	-.4099
110.000	.0000	-.0854	-.0963	-.0872	-.0919	-.1088	-.1051	-.1166	-.1307	-.1683	-.2174	-.2739	-.3050	-.3407	-.3660
120.000						-.1052								-.2330	
130.000						-.1025								-.1880	
140.000						-.0989								-.1496	
150.000						-.0718								-.1324	
160.000						-.0662								-.1169	
170.000						-.0457								-.1209	
180.000	-.0222	-.0200	-.0152	-.0252	-.0304	-.0424	-.0665	-.0826	-.0967	-.1075	-.1011	-.1130	-.1061	-.0949	.0450

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0606		
70.000							-.1089	-.0935	.0000
80.000							-.1336	-.1405	-.0874
90.000	-.4910	-.3902	-.2269	-.1534	-.0530	.0000	-.1447	-.1344	-.0943
100.000	-.4289	-.2875	-.1553	-.0938	-.1173	-.1675			
110.000	-.3469	-.1838	-.0499	-.0190	-.0809	-.2065			
120.000						-.1904			
130.000						-.0629			
140.000						-.1438			
150.000						-.5648			
160.000						.0172			
170.000						.0515			
180.000	-.1670	-.0018	.0471	.0824	.1246	.1229			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (2) = .850 ALPHA (9) = 8.677

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0480	-.0824	-.1976												
70.000	.0056	-.0388	-.1386												
80.000	-.0312	-.0491	-.1153												
90.000			-.1161	-.3691	-.7049	-.3759	-.2459	-.2161	-.2289	-.2354	-.2134	-.1766	-.1391	-.1278	-.1519
100.000						-.4153	-.2687	-.2722	-.2605	-.2333	-.1891	-.2180	-.1506	-.1922	-.1304
110.000						-.5279	-.2955	-.3573	-.2955	-.2548	-.2235	-.1994	-.1738	-.1915	-.1389
120.000						-.5529								.0000	
130.000						-.5886								-.1785	
140.000						-.6165								-.1621	
150.000						-.6666								-.1547	
160.000						-.6903								-.1308	
170.000						-.6870								-.1352	
180.000						-.7027	-.6957	-.6395	-.5687	-.4523	-.3393	-.2386	-.1362	-.1330	-.0491

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0827	-.0643	-.0827	-.0515	-.0500	-.0766	-.0602	-.0819	-.1274	-.1787	-.2387	-.3216	-.4223	-.4382	-.4514
100.000	-.1113	-.1176	-.1042	-.0866	-.0723	-.0929	-.1066	-.1179	-.1254	-.2175	-.2286	-.3183	-.3943	-.3914	-.4299
110.000	.0000	-.1205	-.1166	-.1144	-.1153	-.1330	-.1245	-.1338	-.1634	-.1855	-.2359	-.3099	-.3412	-.3702	-.3970
120.000						-.1261								-.2524	
130.000						-.1128								-.2109	
140.000						-.1035								-.1747	
150.000						-.0859								-.1720	
160.000						-.0711								-.1398	
170.000						-.0625								-.1329	
180.000	-.0298	-.0270	-.0242	-.0365	-.0348	-.0459	-.0750	-.0850	-.1035	-.1199	-.1181	-.1252	-.1247	-.1181	.0348

X/L	.7290	.7470	.7370	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0876		
70.000							-.1495	-.1759	.0000
80.000							-.1780	-.2083	-.1359
90.000	-.5315	-.3926	-.1717	-.1248	-.0405	.0000	-.1870	-.2127	-.1577
100.000	-.4426	-.2677	-.1359	-.0629	-.0859	-.1514			
110.000	-.3642	-.1704	-.0484	.0095	-.0629	-.1748			
120.000						-.1340			
130.000						-.0456			
140.000						-.1738			
150.000						-.0843			
160.000						.0084			
170.000						.0233			
180.000	-.1535	-.0150	.0271	.0714	.1247	.1551			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .954 ALPHA (1) = -8.375

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1478	.0684	-.2153												
70.000	.2317	.1014	-.1331												
80.000	.2603	.0666	-.1096												
90.000			-.1620	-.4695	-.7120	-.7309	-.7350	-.6822	-.6380	-.5774	-.3829	-.2617	-.1886	-.1646	-.1473
100.000						-.7307	-.7470	-.7404	-.7017	-.5885	-.4130	-.3014	-.2327	-.2351	-.1409
110.000						-.8617	-.8040	-.7695	-.7203	-.6190	-.4708	-.3496	-.2395	-.2459	-.1467
120.000						-.6413								.0000	
130.000						-.7369								-.3328	
140.000						-.7353								-.4053	
150.000						-.6771								-.4233	
160.000						-.6039								-.4217	
170.000						-.5318								-.4386	
180.000						-.4540	-.4002	-.3733	-.3753	-.3955	-.3986	-.4179	-.4229	-.4374	-.4330

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0028	.0418	.0543	.0794	.1172	.1442	.1695	.1843	.1823	.1702	.1570	.1364	.1060	.0983	.1014
100.000	-.0406	-.0338	.0170	.0886	.1156	.1291	.1421	.1649	.1677	.1512	.1550	.1324	.1131	.1143	.1060
110.000	.0000	-.0650	.0158	.0607	.0953	.130[illegible]	.1415	.1471	.1506	.1597	.1441	.1374	.1264	.1187	.1116
120.000						[illegible].60								.1360	
130.000						.0890								.1520	
140.000						.1096								.1574	
150.000						.1280								.1622	
160.000						.1229								.1687	
170.000						.1229								.1582	
180.000	-.4115	-.3048	.0317	.0657	.0955	.1217	.1149	.1167	.1112	.1195	.1368	.1384	.1501	.1691	.3371

X/L	.7290	.7470	.7670	.7830	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0196		
70.000							-.0596	-.0905	.0000
80.000							-.0756	-.1252	-.0930
90.000	.0681	.1241	.1006	.0822	.1381	.0000	-.0849	-.1219	-.1131
100.000	.1029	.1342	.1344	.1237	.0571	-.0269			
110.000	.1425	.1711	.1881	.1751	.0770	-.1001			
120.000						-.1696			
130.000						.1056			
140.000						.2333			
150.000						.2973			
160.000						.3376			
170.000						.4519			
180.000	.1480	.3000	.3693	.4278	.4935	.4358			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .991 ALPHA (2) = -6.248

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1278	.0342	-.2282												
70.000	.2110	.0840	-.1376												
80.000	.2522	.0803	-.1156												
90.000			-.1484	-.4716	-.7163	-.7390	-.7450	-.6881	-.6414	-.5963	-.4269	-.3102	-.2322	-.1995	-.1261
100.000						-.7390	-.7601	-.7579	-.7122	-.6126	-.4160	-.3388	-.1935	-.2633	-.0786
110.000						-.8560	-.8141	-.7881	-.7543	-.6428	-.4643	-.3347	-.2735	-.2755	-.1289
120.000						-.6641								.0000	
130.000						-.7922								-.3570	
140.000						-.7986								-.3875	
150.000						-.7422								-.4346	
160.000						-.6746								-.4496	
170.000						-.6094								-.4731	
180.000						-.5139	-.4461	-.4392	-.4344	-.4478	-.4488	-.4593	-.4633	-.4739	-.4176

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0569	-.0019	.0298	.0980	.1145	.1282	.1561	.1614	.1571	.1411	.1166	817	.0433	.0332	.0440
100.000	-.0298	-.0065	.0266	.0834	.1046	.1175	.1286	.1448	.1508	.1272	.1193	.0813	.0542	.0568	.0563
110.000	.0000	-.0053	.0294	.0813	.1014	.1115	.1236	.1385	.1379	.1314	.1104	906	.0744	.0665	.0669
120.000						.1070								.0938	
130.000						.0914								.1091	
140.000						.0951								.1138	
150.000						.1120								.1217	
160.000						.1108								.1294	
170.000						.1074								.1249	
180.000	-.3681	-.0959	.0736	.0651	.0953	.1048	.0989	.0973	.0983	.0991	.1055	.1041	.1087	.1332	.2981

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0740		
70.000							-.1138	-.1609	.0000
80.000							-.1357	-.1965	-.1539
90.000	.0292	.0746	.0875	.0523	.1158	.0000	-.1433	-.1833	-.1
100.000	.0504	.0996	.1027	.0996	.0325	-.0606			
110.000	.1073	.1425	.1708	.1594	.0566	-.1262			
120.000						-.1582			
130.000						.1078			
140.000						.1697			
150.000						.2519			
160.000						.2892			
170.000						.4019			
180.000	.1058	.2702	.3377	.3846	.4461	.3836			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .932 ALPHA (3) = -4.166

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1114	.0414	-.2275												
70.000	.1870	.0780	-.1359												
80.000	.2007	.0525	-.1115												
90.000			-.1314	-.4671	-.7154	-.7375	-.7393	-.6818	-.6207	-.5893	-.4896	-.3123	-.2678	-.1290	-.1328
100.000						-.7384	-.7576	-.7542	-.7033	-.6139	-.4677	-.3191	-.2680	-.2203	-.0252
110.000						-.6444	-.8037	-.7934	-.7633	-.6456	-.4643	-.3488	-.2892	-.2844	-.2383
120.000						-.6759								.0000	
130.000						-.8308								-.3488	
140.000						-.6601								-.4049	
150.000						-.8034								-.4215	
160.000						-.7502								-.4741	
170.000						-.6729								-.4973	
180.000						-.5806	-.5176	-.4860	-.4788	-.4870	-.4814	-.4969	-.4937	-.4973	-.4841

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0811	.0083	.0554	.0923	.1112	.1324	.1402	.1354	.1265	.1009	.0822	.0384	-.0084	-.0307	-.0111
100.000	-.0012	-.0056	.0488	.0727	.0955	.1098	.1148	.1170	.1273	.0902	.0893	.0388	.0061	.0081	-.0013
110.000	.0000	-.0478	.0320	.0947	.0810	.1040	.1096	.1241	.1142	.1084	.0802	.0550	.0344	.0251	.0138
120.000						.1015								.0665	
130.000						.0864								.0858	
140.000						.0821								.0929	
150.000						.0971								.0907	
160.000						.0946								.1026	
170.000						.0975								.0953	
180.000	-.1411	.0022	.0363	.0637	.0884	.0934	.0854	.0811	.0777	.0759	.0870	.0820	.0927	.1028	.2661

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0953		
70.000							-.1340	-.2225	.0000
80.000							-.1523	-.2549	-.2116
90.000	-.0319	.0138	.0269	.0242	.0917	.0000	-.1589	-.2489	-.2228
100.000	.0100	.0555	.0716	.0741	.0087	-.0798			
110.000	.0568	.1084	.1495	.1451	.0547	-.1270			
120.000						-.1411			
130.000						.1034			
140.000						.1633			
150.000						.2240			
160.000						.2593			
170.000						.3556			
180.000	.0614	.2458	.3018	.3563	.4089	.3510			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .951 ALPHA (4) = -1.994

SECTION (1)CRB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.0767	.0203	-.2354												
70.000	.1841	.0398	-.1430												
80.000	.1804	.0335	-.1143												
90.000			-.1290	-.4598	-.7188	-.7422	-.7133	-.6348	-.5527	-.5781	-.5065	-.4020	-.2487	-.0895	-.0432
100.000						-.7410	-.7503	-.7354	-.6091	-.5910	-.4741	-.4117	-.0565	-.2132	.0480
110.000						-.6379	-.7885	-.7837	-.7370	-.6280	-.4797	-.3795	-.2867	-.2128	.0034
120.000						-.7701								.0000	
130.000						-.8713								-.1701	
140.000						-.9193								-.2475	
150.000						-.8600								-.2976	
160.000						-.8178								-.1933	
170.000						-.7484								-.4778	
180.000						-.6434	-.5664	-.5250	-.5215	-.5147	-.5061	-.3316	-.5148	-.2743	-.2184

X/L	.4900	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0382	-.0386	-.0617	.0755	.0803	.1063	.1087	.1124	.0936	.0554	.0488	-.0048	-.0555	-.0761	-.0983
100.000	.0052	-.1072	.0014	.0331	.0906	.0958	.0891	.0865	.0881	.0392	.0488	.0079	-.0438	-.0528	-.0944
110.000	.0000	-.0811	.0353	.0454	.0821	.0910	.0849	.0889	.0788	.0629	.0455	.0116	-.0094	-.0236	-.0706
120.000						.0843								.0259	
130.000						.0700								.0554	
140.000						.0639								.0657	
150.000						.0809								.0801	
160.000						.0774								.0841	
170.000						.0821								.0852	
180.000	-.2645	-.1074	.0954	.0208	.0950	.0819	.0671	.0558	.0399	.0455	.0672	.0698	.0791	.0944	.2091

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0867		
70.000							-.1327	-.2631	.0000
80.000							-.1217	-.3164	-.2674
90.000	-.1243	-.0583	-.0182	-.0159	.0650	.0000	-.1567	-.3100	-.2664
100.000	-.0902	-.0080	.0275	.0412	-.0130	-.0756			
110.000	-.0199	.0500	.1073	.1159	.0547	-.1195			
120.000						-.1149			
130.000						.1158			
140.000						.1404			
150.000						.1936			
160.000						.2259			
170.000						.3164			
180.000	-.0110	.1981	.2529	.3055	.3697	.3178			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .950 ALPHA (3) = .112

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0695	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0790	.0120	-.2121												
90.000	.1265	.0652	-.1241												
95.000	.1360	.0426	-.0929												
95.000			-.0967	-.4350	-.6941	-.6971	-.6398	-.5581	-.5381	-.5744	-.5016	-.3175	-.3835	-.3195	-.1346
100.000						-.6895	-.7101	-.6311	-.5758	-.5823	-.5117	-.4472	-.3731	-.3325	-.0042
110.000						-.9047	-.7664	-.7299	-.6654	-.6277	-.5321	-.4281	-.3554	-.3558	-.1251
120.000						-.8939								.0000	
130.000						-.8793								-.3672	
140.000						-.9472								-.4070	
150.000						-.8873								-.4263	
160.000						-.8523								-.4383	
170.000						-.7914								-.4789	
180.000						-.6850	-.6117	-.5740	-.5627	-.5609	-.5405	-.5453	-.4913	-.4702	.0183

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	.0231	.0450	.0801	.0628	.0503	.0828	.1323	.1009	.0833	.0422	-.0077	-.0739	-.1386	-.1578	-.1607
100.000	.0025	.0377	.0474	.0448	.0658	.0784	.0910	.0774	.0839	.0177	-.0033	-.0684	-.1171	-.1194	-.1520
110.000	.0000	.0220	.0369	.0353	.0713	.0691	.0712	.0774	.0704	.0378	-.0146	-.0604	-.0837	-.0981	-.1189
120.000						.0830								-.0364	
130.000						.0511								-.0089	
140.000						.0390								.0178	
150.000						.0315								.0362	
160.000						.0655								.0447	
170.000						.0637								.0313	
180.000	.0323	.0539	.0247	.0416	.0784	.0849	.0661	.0833	.0481	.0345	.0176	.0107	.0265	.0500	.1970

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1274		
90.000							-.1682	-.2988	.0000
95.000							-.1825	-.3607	-.3291
100.000	-.2035	-.1456	-.0476	-.0215	.0476	.0000	-.1819	-.3596	-.3221
110.000	-.1534	-.0592	.0106	.0314	-.0288	-.1315			
120.000	-.0695	.0093	.0918	.1120	.0045	-.1757			
130.000						-.1619			
140.000						.0612			
150.000						.0563			
160.000						.1144			
170.000						.1673			
180.000						.2520			
180.000	-.0749	.1957	.2509	.2784	.3094	.2495			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .953 ALPHA (6) = 2.360

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0260	-.0151	-.2125												
70.000	.0980	.0408	-.1287												
80.000	.1016	.0195	-.0937												
90.000			-.0881	-.4181	-.6382	-.6314	-.5727	-.5249	-.5078	-.5305	-.5030	-.4728	-.3444	-.3476	-.1351
100.000						-.6376	-.6374	-.5883	-.5478	-.5484	-.5150	-.4774	-.3809	-.3510	-.2290
110.000						-.7321	-.6852	-.6737	-.6398	-.6221	-.5329	-.4334	-.3562	-.3596	-.1261
120.000						-.6851								.0000	
130.000						-.8921								-.3292	
140.000						-.9991								-.3024	
150.000						-.9275								-.3965	
160.000						-.8961								-.3626	
170.000						-.8419								-.2809	
180.000						-.7285	-.6329	-.6048	-.5877	-.5699	-.5295	-.4991	-.3989	-.0954	-.0532

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1017	.0386	.0314	.0406	.0642	.0646	.0870	.0816	.0628	.0129	-.0331	-.1113	-.1924	-.2214	-.2252
100.000	-.0340	.0306	.0203	.0386	.0563	.0451	.0644	.0549	.0557	-.0068	-.0283	-.1092	-.1684	-.1810	-.2147
110.000	.0000	.0237	.0350	.0340	.0360	.0330	.0493	.0519	.0368	.0131	-.0433	-.0976	-.1343	-.1676	-.1948
120.000						.0285								-.1072	
130.000						.0440								-.0697	
140.000						.0493								-.0374	
150.000						.0630								-.0264	
160.000						.0594								-.0105	
170.000						.0795								-.0004	
180.000	.0128	.0477	.0606	.0589	.0541	.0725	.0654	.0503	.0388	.0317	.0039	-.0089	-.0036	.0077	.1534

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1389		
70.000							-.1926	-.3213	.0000
80.000							-.2169	-.3862	-.3765
90.000	-.2898	-.2558	-.1513	-.0805	.0254	.0000	-.2200	-.4051	-.3692
100.000	-.2614	-.1586	-.0702	-.0026	-.0520	-.1565			
110.000	-.1642	-.0716	.0406	.0819	-.0166	-.1984			
120.000						-.1613			
130.000						.0490			
140.000						.0175			
150.000						.0772			
160.000						.1263			
170.000						.1933			
180.000	-.1594	.1576	.2080	.2524	.2720	.2163			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8011)

MACH (3) = .957 ALPHA (7) = 4.498

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0158	-.0355	-.2171												
70.000	.0776	.0116	-.1433												
80.000	.0840	.0011	-.1017												
90.000			-.0945	-.4103	-.6052	-.6054	-.5070	-.4754	-.4384	-.4594	-.4622	-.4582	-.3132	-.1846	-.0440
100.000						-.6016	-.5725	-.5383	-.4956	-.4708	-.4848	-.4996	-.3094	-.1304	-.2112
110.000						-.6986	-.6289	-.6195	-.5895	-.5817	-.5457	-.4148	-.1291	-.0733	-.1131
120.000						- 8972								.0000	
130.000						-.9022								-.0924	
140.000						-1.0390								-.1020	
150.000						-.9684								-.1055	
160.000						-.9366								-.0627	
170.000						-.8876								-.1083	
180.000						-.7848	-.6681	-.6241	-.5729	-.5635	-.5285	-.2042	-.1207	-.1432	-.0308

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0780	-.0137	.0256	.0547	.0537	.0385	.0604	.0468	.0205	-.0181	-.0529	-.1261	-.2144	-.2591	-.2780
100.000	-.2195	-.0043	.0130	.0336	.0373	.0276	.0319	.0132	.0201	-.0455	-.0548	-.1202	-.1968	-.2250	-.2763
110.000	.0000	-.0207	.0136	.0100	.0144	.0037	.0158	.0094	.0002	-.0250	-.0643	-.1185	-.1669	-.2156	-.2521
120.000						-.0027								-.1590	
130.000						.0257								-.1079	
140.000						.0297								-.0761	
150.000						.0528								-.0548	
160.000						.0478								-.0407	
170.000						.0572								-.0312	
180.000	-.0801	.0264	.0525	.0563	.0509	.0566	.0383	.0221	.0239	.0074	.0128	-.0079	-.0258	-.0177	.1169

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1478		
70.000							-.2132	-.3305	.0000
80.000							-.2418	-.3961	-.4136
90.000	-.3603	-.3401	-.2621	-.1719	-.0166	.0000	-.2530	-.4134	-.4007
100.000	-.3257	-.2473	-.1652	-.0712	-.1042	-.1720			
110.000	-.2492	-.1538	-.0295	.0344	-.0399	-.2088			
120.000						-.1424			
130.000						.0570			
140.000						.0923			
150.000						.0743			
160.000						.1076			
170.000						.1551			
180.000	-.2446	.1001	.1639	.2139	.2506	.2078			

AMES 16-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .931 ALPHA (8) = 6.656

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0094	-.0365	-.2057												
70.000	.0378	-.0104	-.1435												
80.000	.0205	-.0214	-.1050												
90.000			-.0895	-.3952	-.5949	-.5925	-.5268	-.4445	-.3953	-.4392	-.4417	-.4582	-.4077	-.2636	-.2793
100.000						-.5872	-.6041	-.5197	-.4518	-.4413	-.4643	-.5125	-.3868	-.3190	-.1830
110.000						-.6811	-.6632	-.6240	-.5454	-.5563	-.5536	-.4015	-.3758	-.2660	-.2706
120.000						-.6680								.0000	
130.000						-.9002								-.1928	
140.000						-1.0650								-.1876	
150.000						-1.0050								-.2034	
160.000						-.9734								-.1619	
170.000						-.9167								-.1262	
180.000						-.7834	-.6924	-.6450	-.6016	-.5835	-.5268	-.2056	-.1065	-.1448	-.0686

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0642	.0028	.0071	.0388	.0422	.0388	.0396	.0356	.0095	-.0447	-.0943	-.1780	-.2673	-.2991	-.3259
100.000	-.0144	-.0111	-.0059	.0151	.0311	.0168	.0055	.0012	.0071	-.0770	-.0994	-.1850	-.2481	-.2614	-.3303
110.000	.0000	-.0267	-.0170	-.0043	.0022	-.0085	-.0087	-.0140	-.0235	-.0525	-.1170	-.1799	-.2157	-.2542	-.3096
120.000						-.0105								-.1852	
130.000						.0067								-.1275	
140.000						.0069								-.0953	
150.000						.0334								-.0836	
160.000						.0356								-.0541	
170.000						.0536								-.0479	
180.000	-.0073	.0509	.0368	.0659	.0562	.0507	.0315	.0257	.0129	-.0014	-.0316	-.0527	-.0519	-.0302	.0985

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1685		
70.000							-.2290	-.3345	.0000
80.000							-.2643	-.3997	-.4189
90.000	-.4047	-.4121	-.3354	-.2306	-.0618	.0000	-.2676	-.4216	-.4134
100.000	-.3817	-.3152	-.2260	-.1212	-.1605	-.2478			
110.000	-.3121	-.2107	-.0564	-.0088	-.1107	-.2783			
120.000						-.1823			
130.000						.0056			
140.000						-.0620			
150.000						.0307			
160.000						.0869			
170.000						.0971			
180.000	-.3065	.0714	.1468	.1948	.2348	.2110			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = .950 ALPHA (9) = 8.842

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0440	-.0772	-.2088												
70.000	-.0065	-.0129	-.1238												
80.000	-.0252	-.0188	-.0780												
90.000			-.0579	-.3293	-.5833	-.5798	-.4645	-.3834	-.3484	-.3979	-.3886	-.3661	-.4182	-.4214	-.1816
100.000						-.5788	-.5534	-.4819	-.4033	-.4047	-.4337	-.4758	-.4810	-.5433	-.2067
110.000						-.6655	-.6301	-.5714	-.4981	-.4818	-.5388	-.5517	-.5453	-.5220	-.0973
120.000						-.6693								.0000	
130.000						-.9077								-.2264	
140.000						-1.1010								-.1991	
150.000						-1.0310								-.1863	
160.000						-1.0040								-.1682	
170.000						-.9490								-.1598	
180.000						-.8037	-.7005	-.6412	-.5987	-.4333	-.3552	-.2642	-.1698	-.1220	-.0250

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0413	-.0057	.0020	.0498	.0486	.0212	.0496	.0352	-.0038	-.0719	-.1019	-.1836	-.2735	-.3105	-.3537
100.000	-.0477	-.0244	-.0071	.0250	.0298	-.0069	.0102	-.0042	-.0113	-.1107	-.1050	-.1887	-.2525	-.2733	-.3672
110.000	.0000	-.0461	-.0264	-.0115	-.0081	-.0368	-.0168	-.0238	-.0488	-.0915	-.1344	-.2012	-.2257	-.2700	-.3432
120.000						-.0244								-.1959	
130.000						-.0079								-.1493	
140.000						-.0125								-.1423	
150.000						.0354								-.1442	
160.000						.0389								-.1086	
170.000						.0575								-.1017	
180.000	.0173	.0091	.0371	.0847	.0744	.0631	.0506	.0215	-.0004	-.0238	-.0220	-.0457	-.0529	-.0776	.1109

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1390		
70.000							-.1860	-.2640	.0000
80.000							-.2061	-.3265	-.3286
90.000	-.4304	-.4397	-.3765	-.2816	-.0984	.0000	-.2202	-.3423	-.3255
100.000	-.4096	-.3486	-.2725	-.1601	-.2049	-.2748			
110.000	-.3444	-.2398	-.0875	-.0604	-.1214	-.3017			
120.000						-.1515			
130.000						.0204			
140.000						-.0654			
150.000						.0158			
160.000						.1196			
170.000						.0836			
180.000	-.3463	.0393	.1247	.1709	.2566	.2604			

AMES 6'-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.048 ALPHA (1) = -8.388

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2721	.2050	-.0609												
70.000	.3465	.2343	.0195												
80.000	.3777	.2017	.0436												
90.000			.0001	-.2904	-.5140	-.5325	-.5463	-.5193	-.4849	-.4534	-.3071	-.1982	-.1395	-.1191	-.1099
100.000						-.5306	-.5564	-.5564	-.5297	-.4534	-.3199	-.2242	-.1570	-.1538	-.1162
110.000						-.6502	-.6118	-.5845	-.5463	-.4636	-.3575	-.2475	-.1787	-.1726	-.1329
120.000						-.4505								.0000	
130.000						-.5490								-.2583	
140.000						-.5529								-.2746	
150.000						-.5019								-.2711	
160.000						-.4362								-.2696	
170.000						-.3783								-.2781	
180.000						-.3028	-.2549	-.2313	-.2324	-.2453	-.2451	-.2687	-.2729	-.2764	-.2796

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0868	-.0964	-.0982	-.0999	-.0839	-.0079	.0676	.1205	.1551	.1620	.1650	.1308	.1310	.1336	.1438
100.000	-.1078	-.1181	-.1170	-.1171	-.0984	-.0424	.0308	.0962	.1431	.1491	.1585	.1504	.1437	.1491	.1521
110.000	.0000	-.1231	-.1203	-.1270	-.1181	-.0695	.0054	.0777	.1267	.1446	.1474	.1437	.1557	.1542	.1626
120.000						-.1042								.1760	
130.000						-.1331								.1895	
140.000						-.1356								.1944	
150.000						-.1018								.2031	
160.000						-.1042								.2046	
170.000						-.0988								.2024	
180.000	-.2862	-.2554	-.2027	-.1774	-.1325	-.1012	-.1025	-.0751	.0463	.1069	.1373	.1504	.1787	.2078	.3684

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9450
PHI									
60.000							.0666		
70.000							.0323	-.0258	.0000
80.000							.0145	-.0518	-.0242
90.000	.1509	.2022	.1855	.1757	.1987	.0000	.0055	-.0375	-.0305
100.000	.1546	.2081	.2212	.2147	.1605	.0750			
110.000	.2092	.2490	.2760	.2609	.1628	.0071			
120.000						-.0418			
130.000						.2194			
140.000						.3213			
150.000						.3834			
160.000						.4213			
170.000						.5189			
180.000	.2115	.3762	.4460	.4992	.5534	.5200			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.552 ALPHA (2) = -6.288

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2804	.1922	-.0869												
70.000	.3329	.2194	.0172												
80.000	.3535	.1986	.0397												
90.000			.0101	-.2910	-.5195	-.5395	-.5463	-.5209	-.4897	-.4681	-.3541	-.2348	-.1533	-.1371	-.1219
100.000						-.5399	-.5595	-.5632	-.5404	-.4819	-.3556	-.2480	-.1643	-.1659	-.1278
110.000						-.6479	-.6100	-.5931	-.5717	-.5004	-.3837	-.2536	-.1875	-.1752	-.1352
120.000						-.4714								.0000	
130.000						-.5971								-.2672	
140.000						-.6049								-.2937	
150.000						-.5507								-.2990	
160.000						-.4983								-.3001	
170.000						-.4359								-.3157	
180.000						-.3543	-.3094	-.2829	-.2832	-.2933	-.2862	-.3016	-.3074	-.3125	-.3062

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1008	-.1119	-.1174	-.1267	-.1041	-.0321	.0571	.1057	.1308	.1346	.1335	.1085	.0746	.0653	.0846
100.000	-.1175	-.1348	-.1368	-.1417	-.1230	-.0608	.0276	.0815	.1189	.1219	.1317	.1130	.0895	.0897	.0998
110.000	.0000	-.1328	-.1352	-.1476	-.1396	-.0880	.0015	.0710	.1042	.1230	.1294	.1128	.1059	.1048	.1115
120.000						-.1180								.1302	
130.000						-.1392								.1471	
140.000						-.1411								.1540	
150.000						-.1098								.1617	
160.000						-.1124								.1691	
170.000						-.1053								.1697	
180.000	-.3039	-.2669	-.2142	-.1748	-.1396	-.1032	-.1038	-.0661	.0291	.0874	.1194	.1261	.1469	.1756	.3288

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0414		
70.000							.0057	-.0895	.0000
80.000							-.0153	-.1205	-.0852
90.000	.0886	.1599	.1537	.1468	.1820	.0000	-.0228	-.1102	-.0839
100.000	.0936	.1702	.1921	.1925	.1416	.0511			
110.000	.1710	.2173	.2542	.2458	.1579	.0002			
120.000						-.0248			
130.000						.2223			
140.000						.2934			
150.000						.3489			
160.000						.3814			
170.000						.4736			
180.000	.1659	.3447	.4129	.4695	.5169	.4791			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.991 ALPHA (3) = -4.118

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2588	.1761	-.0747												
70.000	.3078	.2113	.0154												
80.000	.3244	.1893	.0424												
90.000			.0223	-.2833	-.5194	-.5421	-.5436	-.5080	-.4657	-.4531	-.3603	-.2698	-.1898	-.1719	-.1530
100.000						-.5437	-.5589	-.5607	-.5290	-.4705	-.3538	-.2672	-.1939	-.1993	-.1510
110.000						-.6381	-.6038	-.5960	-.5785	-.5063	-.3683	-.2531	-.1967	-.2002	-.1597
120.000						-.4888								.0000	
130.000						-.6342								-.2496	
140.000						-.6608								-.2908	
150.000						-.6056								-.3118	
160.000						-.5642								-.3292	
170.000						-.5042								-.3451	
180.000						-.4217	-.3611	-.3295	-.3251	-.3277	-.3180	-.3356	-.3395	-.3458	-.3208

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1173	-.1192	-.1203	-.1266	-.1104	-.0257	.0459	.1053	.1107	.1076	.1042	.0652	.0209	.0043	-.0010
100.000	-.1371	-.1388	-.1361	-.1381	-.1213	-.0510	.0224	.0763	.1065	.0942	.1021	.0680	.0337	.0244	.0157
110.000	.0000	-.1338	-.1326	-.1453	-.1357	-.0798	-.0042	.0658	.0943	.1038	.0980	.0749	.0593	.0455	.0359
120.000						-.1046								.0853	
130.000						-.1211								.1032	
140.000						-.1235								.1200	
150.000						-.0990								.1327	
160.000						-.0975								.1366	
170.000						-.0913								.1390	
180.000	-.3049	-.2611	-.1923	-.1544	-.1244	-.0909	-.0813	-.0259	.0498	.0688	.0881	.0949	.1189	.1413	.2916

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0328		
70.000							-.0046	-.1589	.0000
80.000							-.0235	-.1511	-.1248
90.000	-.0078	.0749	.1008	.1118	.1616	.0000	-.0316	-.1510	-.1211
100.000	.0065	.1040	.1462	.1579	.0992	.0277			
110.000	.0944	.1655	.2097	.2095	.1327	-.0053			
120.000						-.0053			
130.000						.2220			
140.000						.2664			
150.000						.3213			
160.000						.3462			
170.000						.4230			
180.000	.0916	.3138	.3755	.4237	.4685	.4378			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.051 ALPHA (4) = -1.964

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2128	.1591	-.0857												
70.000	.2784	.1965	.0125												
80.000	.2868	.1781	.0422												
90.000			.0307	-.2790	-.5153	-.5411	-.5376	-.4789	-.4111	-.4265	-.3708	-.2893	-.2123	-.1829	-.1668
100.000						-.5397	-.5547	-.5508	-.4919	-.4362	-.3589	-.2869	-.2119	-.2162	-.1640
110.000						-.6252	-.5922	-.5911	-.5712	-.4828	-.3662	-.2604	-.2138	-.2077	-.1685
120.000						-.5012								.0000	
130.000						-.6596								-.2519	
140.000						-.7121								-.2818	
150.000						-.6503								-.3085	
160.000						-.6169								-.3314	
170.000						-.5586								-.3579	
180.000						-.4723	-.3968	-.3680	-.3580	-.3576	-.3452	-.3660	-.3629	-.3654	-.3325

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1291	-.1300	-.1269	-.1337	-.1111	-.0242	.0567	.0929	.1063	.0889	.0761	.0375	-.0182	-.0515	-.0700
100.000	-.1485	-.1456	-.1448	-.1489	-.1232	-.0475	.0298	.0757	.1014	.0686	.0791	.0358	-.0067	-.0221	-.0629
110.000	.0000	-.1382	-.1378	-.1543	-.1395	-.0565	.0168	.0647	.0843	.0841	.0724	.0418	.0192	-.0072	-.0456
120.000						-.0771								.0356	
130.000						-.0939								.0597	
140.000						-.1031								.0765	
150.000						-.0828								.0918	
160.000						-.0820								.1020	
170.000						-.0837								.1076	
180.000	-.2879	-.2181	-.1544	-.1224	-.1041	-.0699	-.0494	.0201	.0481	.0593	.0826	.0748	.0867	.1156	.2391

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0212		
70.000							-.0200	-.1280	.0000
80.000							-.0429	-.1784	-.1536
90.000	-.1065	-.0354	.0172	.0559	.1204	.0000	-.0524	-.1897	-.1500
100.000	-.0970	.0105	.0734	.1126	.0667	.0059			
110.000	.0092	.0757	.1640	.1770	.1036	-.0354			
120.000						-.0159			
130.000						.2081			
140.000						.2236			
150.000						.2790			
160.000						.3012			
170.000						.3722			
180.000	-.1025	.2751	.3357	.3728	.4168	.3639			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.046 ALPHA (5) = .143

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1704	.1252	-.0789												
70.000	.2372	.1687	.0006												
80.000	.2388	.1413	.0318												
90.000			.0282	-.2832	-.5178	-.5375	-.4891	-.3992	-.3877	-.4079	-.3792	-.3503	-.2555	-.2264	-.2093
100.000						-.5422	-.5483	-.4883	-.4131	-.4118	-.3745	-.3450	-.2498	-.2583	-.2008
110.000						-.6203	-.5856	-.5720	-.5029	-.4502	-.3852	-.2986	-.2403	-.2429	-.1976
120.000						-.5191								.0000	
130.000						-.6909								-.2570	
140.000						-.7602								-.2763	
150.000						-.6968								-.2986	
160.000						-.6681								-.3227	
170.000						-.6145								-.3495	
180.000						-.5247	-.4444	-.4118	-.4016	-.3956	-.3846	-.3924	-.3766	-.3584	-.2886

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1562	-.1443	-.1362	-.1391	-.1049	.0020	.0598	.0902	.0912	.0714	.0556	.0027	-.0614	-.0962	-.1274
100.000	-.1746	-.1691	-.1569	-.153	-.1133	-.0173	.0412	.0751	.0895	.0536	.0580	.0064	-.0446	-.0669	-.1213
110.000	.0000	-.1649	-.1528	-.1613	-.1331	-.0383	.0334	.0627	.0702	.0635	.0474	.0104	-.0187	-.0523	-.1048
120.000						-.0537								-.0166	
130.000						-.0644								.0104	
140.000						-.0625								.0326	
150.000						-.0453								.0502	
160.000						-.0480								.0616	
170.000						-.0419								.0622	
180.000	-.2220	-.1675	-.1261	-.1075	-.0640	-.0381	-.0060	.0319	.0476	.0510	.0650	.0517	.0554	.0693	.1951

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0091		
90.000							-.0653	-.1599	.0000
100.000							-.0852	-.2165	-.2084
110.000	-.1887	-.1225	-.0752	-.0086	.0860	.0000	-.0922	-.2362	-.2027
120.000	-.1759	-.0673	-.0019	.0623	.0271	-.0431			
130.000	-.0649	.0073	.1043	.1406	.0663	-.0768			
140.000						-.0340			
150.000						.1831			
160.000						.1723			
170.000						.2191			
180.000						.2530			
190.000						.3164			
200.000	-.0763	.2383	.2917	.3271	.3619	.3240			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REC01.1)

MACH (4) = 1.046 ALPHA (6) = 2.391

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.264	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1319	.0926	-.0824												
70.000	.1972	.1366	-.0135												
80.000	.1950	.1365	.0272												
90.000			.0560	-.2696	-.5049	-.5034	-.3970	-.3382	-	-.3773	-.3656	3503	-.2797	-.2581	-.2225
100.000						-.5046	-.5030	-.4000	-.	-.3784	-.3710	-.3769	-.2818	-.3005	-.2045
110.000						-.5959	-.5699	-.5004	-.43	-.4351	-.4063	-.3427	-.2707	-.2714	-.2066
120.000						-.5200								.0000	
130.000						-.6996								-.2664	
140.000						-.7921								-.2760	
150.000						-.7288								-.2838	
160.000						-.7039								-.3022	
170.000						-.6630								-.3164	
180.000						-.5672	-.4877	-.4465	-.4279	-.4277	-.4124	-.3930	-.3355	-.3024	-.2123

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1828	-.1553	-.1295	-.1204	-.0802	.0362	.0829	.1050	.1011	.0620	.0368	-.0208	-.0914	-.1282	-.1600
100.000	-.1801	-.1706	-.1471	-.1369	-.0780	.0267	.0658	.0889	.0936	.0426	.0398	-.0159	-.0710	-.0946	-.1596
110.000	.0000	-.1707	-.1553	-.1436	-.0997	.0161	.0568	.0785	.0749	.0574	.0273	-.0125	-.0476	-.0848	-.1423
120.000						.0118								-.0519	
130.000						.0043								-.0165	
140.000						.0066								.0069	
150.000						.0181								.0250	
160.000						.0176								.0420	
170.000						.0308								.0465	
180.000	-.1783	-.1386	-.0898	-.0557	-.0214	.0269	.0512	.0641	.0598	.0546	.0570	.0478	.0460	.0540	.1671

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0465		
70.000							-.0964	-.1799	.0000
80.000							-.1166	-.2428	-.2412
90.000	-.2278	-.2002	-.1642	-.0896	.0455	.0000	-.1277	-.2729	-.2398
100.000	-.2153	-.1442	-.0810	.0252	-.0053	-.0878			
110.000	-.1367	-.0640	.0716	.1192	.0390	-.1157			
120.000						-.0323			
130.000						.1676			
140.000						.1281			
150.000						.1823			
160.000						.2159			
170.000						.2734			
180.000	-.1398	.2059	.2818	.2907	.3155	.2992			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.047 ALPHA (7) = 4.586

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.0868	.0583	-.1024												
70.000	.1477	.1082	-.0257												
80.000	.1384	.0985	.0147												
90.000			.0342	-.2683	-.5085	-.4968	-.3300	-.3093	-.3108	-.3533	-.3406	-.3413	-.3016	-.2820	-.2540
100.000						-.5013	-.3953	-.3598	-.3412	-.3568	-.3566	-.3784	-.3239	-.3341	-.2425
110.000						-.5952	-.5341	-.4268	-.4104	-.4364	-.4173	-.3709	-.3139	-.3142	-.2349
120.000						-.5368								.0000	
130.000						-.7227								-.2759	
140.000						-.8405								-.2740	
150.000						-.7740								-.2762	
160.000						-.7471								-.2712	
170.000						-.7104								-.2809	
180.000						-.6179	-.5248	-.4917	-.4748	-.4582	-.4344	-.3874	-.3079	-.2495	-.1715

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1950	-.1868	-.1627	-.1523	-.0842	.0735	.1021	.1124	.0928	.0489	.0188	-.0460	-.1212	-.1512	-.1907
100.000	-.2041	-.2042	-.1885	-.1768	-.0833	.0531	.0818	.0870	.0851	.0209	.0192	-.0456	-.1017	-.1176	-.1936
110.000	.0000	-.1968	-.1913	-.1794	-.1037	.0253	.0676	.0734	.0582	.0360	-.0005	-.0488	-.0772	-.1083	-.1835
120.000						.0376								-.0675	
130.000						.0364								-.0194	
140.000						.0390								.0069	
150.000						.0526								.0198	
160.000						.0493								.0399	
170.000						.0614								.0562	
180.000	-.1243	-.0915	-.0686	-.0338	.0087	.0670	.0691	.0676	.0625	.0502	.0452	.0356	.0439	.0599	.1505

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0667		
70.000							-.1236	-.1924	.0000
80.000							-.1426	-.2611	-.2711
90.000	-.2569	-.2411	-.2363	-.1370	.0024	.0000	-.1460	-.2911	-.2775
100.000	-.2463	-.2025	-.1290	-.0262	-.0503	-.1365			
110.000	-.1878	-.1331	.0190	.0854	.0217	-.1508			
120.000						-.0424			
130.000						.1461			
140.000						.0816			
150.000						.1515			
160.000						.1790			
170.000						.2341			
180.000	-.1905	.1699	.2248	.2614	.2968	.2924			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.054 ALPHA (8) = 6.587

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1840	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.0418	.0401	-.1103												
90.000	.0900	.0870	-.0322												
80.000	.0820	.0744	.0123												
90.000			.0368	-.2513	-.4845	-.3988	-.3136	-.3014	-.2732	-.3021	-.3025	-.3254	-.2875	-.2908	-.3139
100.000						-.4375	-.3671	-.3595	-.3239	-.3202	-.3321	-.3852	-.3246	-.3774	-.2919
110.000						-.5649	-.4454	-.4287	-.4117	-.4232	-.4158	-.3820	-.3418	-.3731	-.2836
120.000						-.5312								.0000	
130.000						-.7259								-.2852	
140.000						-.8599								-.2764	
150.000						-.7947								-.2572	
160.000						-.7650								-.2583	
170.000						-.7317								-.2604	
180.000						-.6494	-.5418	-.5002	-.4669	-.4548	-.4058	-.3325	-.2502	-.2389	-.1524

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2428	-.2147	-.1892	-.1545	-.0035	.0759	.1118	.1179	.1027	.0597	.0203	-.0585	-.1416	-.1889	-.2150
100.000	-.2495	-.2278	-.1942	-.1503	-.0114	.0620	.0869	.0919	.0967	.0326	.0169	-.0634	-.1318	-.1603	-.2257
110.000	.0000	-.2180	-.1876	-.1628	-.0175	.0412	.0670	.0746	.0664	.0441	-.0102	-.0715	-.1164	-.1626	-.2091
120.000						.0280								-.1169	
130.000						.0417								-.0602	
140.000						.0417								-.0356	
150.000						.0536								-.0279	
160.000						.0556								-.0019	
170.000						.0625								.0065	
180.000	-.0852	-.0562	-.0365	-.0136	.0334	.0696	.0783	.0843	.0872	.0817	.0435	.0258	.0179	.0171	.1532

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0861		
90.000							-.1482	-.2213	.0000
80.000							-.1742	-.2915	-.3174
90.000	-.2852	-.2765	-.2717	-.1764	-.0048	.0000	-.1840	-.3187	-.3503
100.000	-.2727	-.2403	-.1666	-.0510	-.0572	-.1656			
110.000	-.2207	-.1571	-.0034	.0736	.0213	-.1539			
120.000						-.0325			
130.000						.1272			
140.000						.0536			
150.000						.1415			
160.000						.1738			
170.000						.1687			
180.000	-.2209	.1440	.2113	.2663	.3096	.3173			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (4) = 1.050 ALPHA (9) = 8.693

SECTION (1)OMB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4)
PHI															
80.000	-.0180	-.0085	-.1360												
90.000	.0188	.0526	-.0470												
95.000	-.0178	.0339	.0043												
90.000			.0366	-.2496	-.4566	-.3652	-.3096	-.2827	-.2580	-.2890	-.2877	-.3066	-.2847	-.3004	-.3413
100.000						-.3637	-.3614	-.3467	-.3085	-.2947	-.3129	-.3699	-.3469	-.4094	-.3350
110.000						-.5203	-.4072	-.4189	-.3970	-.4020	-.4072	-.4076	-.4102	-.4420	-.3458
120.000						-.5391								.0000	
130.000						-.7459								-.2871	
135.000						-.9043								-.2529	
140.000						-.8448								-.2203	
150.000						-.6112								-.2229	
160.000						-.7807								-.2055	
170.000						-.6934	-.5750	-.5364	-.4989	-.4599	-.4015	-.3208	-.2257	-.1763	-.0989
180.000															

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2912	-.2808	-.2325	-.2046	.0121	.0953	.1152	.1126	.0842	.0246	.0084	-.0625	-.1454	-.1917	-.2423
100.000	-.3088	-.2819	-.2281	-.1774	.0074	.0806	.0850	.0766	.0725	-.0120	.0027	-.0711	-.1386	-.1669	-.2554
110.000	.0030	-.2593	-.2442	-.1785	.0074	.0541	.0567	.0512	.0317	-.0052	-.0286	-.0855	-.1252	-.1733	-.2479
120.000						.0270								-.1250	
130.000						.0261								-.0685	
140.000						.0304								-.0598	
150.000						.0520								-.0491	
160.000						.0572								-.0131	
170.000						.0675								-.0052	
180.000	-.0782	-.0571	-.0124	.0231	.0554	.0773	.0749	.0723	.0613	.0511	.0565	.0500	.0168	.0093	.1714

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0982		
90.000							-.1557	-.2230	.0000
95.000							-.1885	-.2890	-.3208
95.000	-.3125	-.2982	-.3200	-.2304	-.0379	.0000	-.2050	-.3156	-.3529
100.000	-.3059	-.2854	-.2068	-.0954	-.1075	-.1878			
110.000	-.2529	-.2032	-.0353	.0274	-.0060	-.1645			
120.000						-.0176			
130.000						.1265			
140.000						.0342			
145.000						.1067			
160.000						.1975			
170.000						.1528			
180.000	-.2549	.1132	.1927	.2519	.3377	.3593			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (5) = 1.150 ALPHA (1) = -8.350

SECTION : 1:ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.3364	.2674	.0082												
90.000	.4113	.2945	.0874												
80.000	.4389	.2843	.1075												
90.000			.0695	-.2184	-.4316	-.4501	-.4578	-.4567	-.4034	-.3816	-.2478	-.1404	-.0806	-.0645	-.0579
100.000						-.4532	-.4665	-.4686	-.4468	-.3771	-.2579	-.1651	-.0993	-.0993	-.0617
110.000						-.5689	-.5223	-.4961	-.4600	-.3841	-.2904	-.1873	-.1258	-.1145	-.0775
120.000						-.3718								.0000	
130.000						-.4673								-.1966	
140.000						-.4673								-.2105	
150.000						-.4160								-.2046	
160.000						-.3563								-.2071	
170.000						-.2985								-.2123	
180.000						-.2248	-.1837	-.1563	-.1593	-.1702	-.1687	-.1927	-.2031	-.2083	-.2101

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0363	-.0408	-.0332	-.0421	-.0368	-.0144	.0690	.1373	.1723	.1907	.1984	.1883	.1763	.1796	.1953
100.000	-.0528	-.0640	-.0568	-.0548	-.0473	-.0277	.0311	.1114	.1589	.1719	.1950	.1877	.1854	.1955	.2065
110.000	.0000	-.0691	-.0637	-.0665	-.0653	-.0475	.0081	.0849	.1329	.1666	.1814	.1864	.1964	.2026	.2141
120.000						-.0592								.2267	
130.000						-.0646								.2357	
140.000						-.0653								.2423	
150.000						-.0551								.2492	
160.000						-.0589								.2528	
170.000						-.0516								.2519	
180.000	-.2154	-.1920	-.1466	-.1270	-.0817	-.0557	-.0599	-.0535	-.0260	.0574	.1651	.1930	.2260	.2568	.4005

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1328		
90.000							.0997	.0279	.0000
80.000							.0831	.0069	.0341
90.000	.2003	.2229	.2565	.2282	.2265	.0000	.0723	.0210	.0268
100.000	.2072	.2591	.2678	.2585	.2194	.1404			
110.000	.2599	.2965	.3237	.3125	.2241	.0748			
120.000						.0283			
130.000						.2875			
140.000						.3816			
150.000						.4414			
160.000						.4750			
170.000						.5665			
180.000	.2648	.4226	.4909	.5476	.6036	.5711			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA83

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.100 ALPHA (2) = -6.295

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3237	.2581	.0074												
70.000	.3933	.2860	.0887												
80.000	.4153	.2654	.1098												
90.000			.0818	-.2070	-.4320	-.4531	-.4582	-.4345	-.4055	-.3861	-.2787	-.1710	-.0995	-.0767	-.0621
100.000						-.4540	-.4685	-.4710	-.4503	-.3942	-.2796	-.1878	-.1148	-.1119	-.0689
110.000						-.5600	-.5161	-.5022	-.4764	-.4095	-.3038	-.1997	-.1315	-.1242	-.0792
120.000						-.3876								.0000	
130.000						-.5091								-.2046	
140.000						-.5179								-.2242	
150.000						-.4650								-.2271	
160.000						-.4194								-.2285	
170.000						-.3573								-.2411	
180.000						-.2822	-.2257	-.2008	-.1974	-.2031	-.2015	-.2249	-.2303	-.2388	-.2382

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0441	-.0464	-.0478	-.0588	-.0514	-.0036	.0779	.1344	.1639	.1714	.1778	.1576	.1311	.1302	.1371
100.000	-.0605	-.0681	-.0665	-.0707	-.0629	-.0378	.0312	.1087	.1534	.1554	.1744	.1641	.1443	.1528	.1500
110.000	.0000	-.0637	-.0671	-.0741	-.0764	-.0568	-.0014	.0853	.1315	.1565	.1688	.1621	.1624	.1643	.1666
120.000						-.0705								.1930	
130.000						-.0966								.2077	
140.000						-.0969								.2179	
150.000						-.0638								.2247	
160.000						-.0655								.2302	
170.000						-.0585								.2282	
180.000	-.2323	-.2037	-.1571	-.1262	-.0811	-.0578	-.0603	-.0488	-.0045	.0938	.1590	.1773	.2043	.2342	.3705

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1209		
70.000							.0872	-.0093	.0000
80.000							.0680	-.0402	-.0113
90.000	.1459	.1842	.2107	.2067	.2083	.0000	.0582	-.0341	-.0123
100.000	.1569	.2269	.2312	.2505	.1990	.1225			
110.000	.2221	.2739	.3077	.2996	.2165	.0765			
120.000						.0539			
130.000						.2930			
140.000						.3609			
150.000						.4164			
160.000						.4472			
170.000						.5354			
180.000	.2236	.3992	.4666	.5175	.5716	.5444			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (3) = 1.100 ALPHA (3) = -4.129

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3068	.2456	.0115												
70.000	.3726	.2796	.0950												
80.000	.3864	.2658	.1169												
90.000			.0972	-.2016	-.4287	-.4522	-.4611	-.4297	-.3929	-.3792	-.2940	-.2042	-.1231	-.1030	-.0943
100.000						-.4532	-.4719	-.4734	-.4481	-.3970	-.2917	-.2033	-.1296	-.1285	-.0907
110.000						-.5448	-.5141	-.5057	-.4900	-.4295	-.3121	-.1908	-.1314	-.1300	-.0976
120.000						-.4000								.0000	
130.000						-.5403								-.1917	
140.000						-.5641								-.2242	
150.000						-.5116								-.2399	
160.000						-.4736								-.2532	
170.000						-.4142								-.2652	
180.000						-.3335	-.2760	-.2455	-.2419	-.2471	-.2426	-.2561	-.2573	-.2674	-.2555

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0598	-.0614	-.0551	-.0636	-.0591	-.0258	.0641	.1291	.1541	.1489	.1427	.1130	.0713	.0550	.0544
100.000	-.0751	-.0801	-.0708	-.0762	-.0690	-.0465	.0307	.1041	.1427	.1319	.1425	.1148	.0849	.0822	.0711
110.000	.0020	-.0765	-.0704	-.0801	-.0827	-.0623	.0039	.0837	.1242	.1396	.1358	.1230	.1076	.1003	.0875
120.000						-.0704								.1382	
130.000						-.0835								.1536	
140.000						-.0828								.1623	
150.000						-.0537								.1751	
160.000						-.0575								.1831	
170.000						-.0493								.1865	
180.000	-.2400	-.2057	-.1454	-.1086	-.0801	-.0480	-.0449	-.0301	.0204	.0804	.1269	.1403	.1635	.1905	.3284

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1080		
70.000							.0683	-.0377	.0000
80.000							.0515	-.0779	-.0540
90.000	.0454	.1009	.1576	.1711	.1869	.0000	.0373	-.0837	-.0502
100.000	.0882	.1564	.2042	.2188	.1674	.0901			
110.000	.1481	.2164	.2698	.2664	.1852	.0627			
120.000						.0644			
130.000						.2901			
140.000						.3329			
150.000						.3842			
160.000						.4073			
170.000						.4842			
180.000	.1466	.3699	.4323	.4785	.5226	.4973			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (5) = 1.101 ALPHA (4) = -1.976

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2787	.2283	.0130												
70.000	.3414	.2693	.0883												
80.000	.3555	.2439	.1140												
90.000			.1069	-.1957	-.4249	-.4512	-.4553	-.4143	-.3570	-.3572	-.3029	-.2383	-.1538	-.1270	-.1047
100.000						-.4516	-.4710	-.4667	-.4252	-.3714	-.2969	-.2329	-.1531	-.1551	-.1031
110.000						-.5360	-.5081	-.5056	-.4905	-.4212	-.3094	-.2060	-.1508	-.1490	-.1065
120.000						-.4126								.0000	
130.000						-.5642								-.1889	
140.000						-.6106								-.2196	
150.000						-.5534								-.2439	
160.000						-.5229								-.2680	
170.000						-.4722								-.2861	
180.000						-.3882	-.3234	-.2928	-.2810	-.2805	-.2742	-.2860	-.2842	-.2897	-.2612

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0653	-.0660	-.0620	-.0712	-.0624	-.0160	.0768	.1350	.1540	.1456	.1342	.0978	.0458	.0188	-.0099
100.000	-.0835	-.0845	-.0807	-.0834	-.0716	-.0428	.0393	1127	.1458	.1277	.1353	.0971	.0572	.0453	-.0026
110.000	.0000	-.0780	-.0755	-.0854	-.0841	-.0558	.0150	.0993	.1321	.1368	.1284	.1030	.0820	.0585	.0141
120.000						-.0540								.0929	
130.000						-.0710								.1179	
140.000						-.0690								.1324	
150.000						-.0428								.1427	
160.000						-.0421								.1492	
170.000						-.0366								.1530	
180.000	-.2349	-.1850	-.1158	-.0788	-.0568	-.0316	-.0228	.0165	.0772	.1154	.1327	.1288	.1396	.1603	.2830

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0873		
70.000							.0455	-.0562	.0000
80.000							.0219	-.1089	-.0926
90.000	-.0437	-.0045	.0676	.1094	.1386	.0000	.0110	-.1207	-.0864
100.000	-.0247	.0626	.1193	.1658	.1238	.0587			
110.000	.0565	.1355	.2128	.2327	.1587	.0195			
120.000						.0482			
130.000						.2703			
140.000						.2896			
150.000						.3372			
160.000						.3582			
170.000						.4259			
180.000	.0541	.3293	.3878	.4296	.4686	.4438			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (5) = 1.102 ALPHA (5) = .129

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2458	.2039	-.0012												
70.000	.3050	.2465	.0820												
80.000	.3118	.2259	.1087												
90.000			.1103	-.1879	-.4220	-.4447	-.4339	-.3442	-.2998	-.3379	-.3155	-.2717	-.1908	-.1628	-.1450
100.000						-.4460	-.4662	-.4383	-.3539	-.3379	-.3078	-.2847	-.1860	-.1926	-.1337
110.000						-.5220	-.4992	-.5017	-.4529	-.3824	-.3179	-.2386	-.1757	-.1797	-.1326
120.000						-.4211								.0000	
130.000						-.5849								-.1903	
140.000						-.6528								-.2118	
150.000						-.5926								-.2294	
160.000						-.5649								-.2580	
170.000						-.5202								-.2811	
180.000						-.4366	-.3645	-.3353	-.3243	-.3207	-.3081	-.3113	-.2978	-.2939	-.2382

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0998	-.0962	-.0842	-.0878	-.0759	-.0060	.0936	.1459	.1598	.1439	.1258	.0795	.0182	-.0112	-.0416
100.000	-.1174	-.1212	-.1074	-.0987	-.0858	-.0231	.0683	.1260	.1508	.1262	.1282	.0830	.0330	.0158	-.0343
110.000	.0000	-.1102	-.1038	-.1084	-.0998	-.0501	.0486	.1198	.1325	.1361	.1191	.0884	.0584	.0290	-.0170
120.000						-.0513								.0620	
130.000						-.0567								.0911	
140.000						-.0523								.1126	
150.000						-.0318								.1293	
160.000						-.0313								.1383	
170.000						-.0253								.1412	
180.000	-.1943	-.1449	-.0953	-.0722	-.0553	-.0214	-.0026	.0572	.1149	.1303	.1376	.1296	.1347	.1476	.2594

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0582		
70.000							.0093	-.0788	.0000
80.000							-.0129	-.1349	-.1323
90.000	-.0923	-.0606	.0079	.0710	.1176	.0000	-.0204	-.1554	-.1263
100.000	-.0816	.0129	.0767	.1400	.1025	.0238			
110.000	.0055	.0831	.1792	.2129	.1361	-.0039			
120.000						.0415			
130.000						.2516			
140.000						.2426			
150.000						.2872			
160.000						.3142			
170.000						.3790			
180.000	.0055	.3088	.3602	.3957	.4187	.3907			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (5) = 1.102 ALPHA (6) = 2.313

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2007	.1633	-.0007												
70.000	.2603	.2137	.0688												
80.000	.2622	.2083	.1074												
90.000			.1162	-.1790	-.4106	-.4268	-.3594	-.2702	-.2604	-.3107	-.3068	-.2905	-.2254	-.2021	-.1793
100.000						-.4279	-.4499	-.3513	-.2979	-.3142	-.3107	-.3161	-.2344	-.2374	-.1572
110.000						-.5031	-.4955	-.4704	-.3781	-.3707	-.3352	-.2773	-.2197	-.2146	-.1552
120.000						-.4250								.0000	
130.000						-.5950								-.1970	
140.000						-.6848								-.2096	
150.000						-.6219								-.2220	
160.000						-.5992								-.2428	
170.000						-.5611								-.2622	
180.000						-.4806	-.4165	-.3844	-.3713	-.3606	-.3432	-.3314	-.2928	-.2644	-.1850

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.68.1	.7100
PHI															
90.000	-.1282	-.1326	-.1130	-.1107	-.1015	-.0342	.0968	.1524	.1627	.1412	.1106	.0518	-.0173	-.0498	-.0700
100.000	-.1412	-.1547	-.1319	-.1268	-.1076	-.0493	.0757	.1348	.1587	.1265	.1144	.0550	.0025	-.0184	-.0674
110.000	.0000	-.1507	-.1371	-.1331	-.1198	-.0633	.0552	.1233	.1397	.1345	.1017	.0590	.0244	-.0085	-.0503
120.000						-.0595								.0280	
130.000						-.0483								.0641	
140.000						-.0408								.0892	
150.000						-.0098								.1084	
160.000						-.0049								.1252	
170.000						.0009								.1287	
180.000	-.1590	-.1283	-.0918	-.0807	-.0541	.0053	.0463	.0954	.1289	.1406	.1310	.1209	.1207	.1361	.2397

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0249		
70.000							-.0299	-.1042	.0000
80.000							-.0487	-.1650	-.1706
90.000	-.1321	-.1236	-.0690	.0144	.0888	.0000	-.0538	-.1902	-.1666
100.000	-.1231	-.0510	-.0082	.1026	.0764	-.0068			
110.000	-.0432	.0296	.1478	.1976	.1156	-.0316			
[illegible]						.0359			
130.000						.2304			
140.000						.1917			
150.000						.2386			
160.000						.2701			
170.000						.3287			
180.000	-.0411	.2817	.3334	.3635	.3731	.3469			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (5) = 1.097 ALPHA (7) = 4.460

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1521	.1179	-.0531												
70.000	.2080	.1635	.0200												
80.000	.2003	.1556	.0629												
90.000			.0851	-.1999	-.4365	-.4489	-.2900	-.2269	-.2292	-.2797	-.2704	-.2684	-.2492	-.2429	-.2377
100.000						-.4496	-.4284	-.2820	-.2598	-.2818	-.2887	-.3098	-.2714	-.3002	-.2107
110.000						-.5246	-.4933	-.3885	-.3252	-.3519	-.3462	-.3166	-.2715	-.2793	-.2085
120.000						-.4669								.0000	
130.000						-.6441								-.2388	
140.000						-.7553								-.2400	
150.000						-.6924								-.2449	
160.000						-.6679								-.2602	
170.000						-.6323								-.2634	
180.000						-.5591	-.4557	-.4120	-.3941	-.3807	-.3603	-.3493	-.2787	-.2436	-.1633

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1792	-.1624	-.1382	-.1238	-.1078	-.0463	.0872	.1291	.1380	.1043	.0939	.0384	-.0334	-.0723	-.1130
100.000	-.1882	-.1773	-.1519	-.1398	-.1168	-.0568	.0625	.1150	.1295	.0821	.0943	.0373	-.0171	-.0376	-.1141
110.000	.0000	-.1701	-.1543	-.1557	-.1298	-.0719	.0520	.1032	.1104	.0974	.0809	.0379	.0074	-.0301	-.0988
120.000						-.0602								.0107	
130.000						-.0553								.0549	
140.000						-.0350								.0830	
150.000						-.0044								.0990	
160.000						.0027								.1157	
170.000						.0143								.1222	
180.000	-.1254	-.0986	-.0692	-.0548	-.0314	.0286	.0489	.0990	.1192	.1206	.1316	.1251	.1251	.1302	.2093

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0128		
70.000							-.0430	-.1146	.0000
80.000							-.0628	-.1807	-.1951
90.000	-.1728	-.1846	-.1466	-.0626	.0223	.0000	-.0688	-.2066	-.2000
100.000	-.1558	-.1149	-.0607	.0444	.0183	-.0448			
110.000	-.1040	-.0411	.0908	.1517	.0960	-.0594			
120.000						.0406			
130.000						.2251			
140.000						.1597			
150.000						.2255			
160.000						.2460			
170.000						.3026			
180.000	-.1066	.2313	.2794	.3125	.3530	.3544			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.096 ALPHA (8) = 6.571

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0861	.0749	-.0830												
70.000	.1273	.1255	.0140												
80.000	.1149	.1085	.0818												
90.000			.0868	-.1957	-.4248	-.3908	-.2405	-.2242	-.2210	-.2550	-.2443	-.2542	-.2500	-.2532	-.2730
100.000						-.4109	-.3170	-.2711	-.2557	-.2664	-.2682	-.3085	-.2918	-.3305	-.2588
110.000						-.5074	-.4508	-.3349	-.3229	-.3535	-.3475	-.3469	-.3134	-.3323	-.2543
120.000						-.4720								.0000	
130.000						-.6602								-.2543	
140.000						-.7919								-.2466	
150.000						-.7326								-.2404	
160.000						-.7053								-.2413	
170.000						-.6769								-.2321	
180.000						-.6056	-.4871	-.4416	-.4172	-.4002	-.3676	-.3274	-.2431	-.2114	-.1369

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2188	-.2000	-.1663	-.1509	-.1285	-.0608	.0867	.1296	.1223	.0758	.0697	.0178	-.0547	-.0917	-.1466
100.000	-.2291	-.2118	-.1813	-.1687	-.1381	-.0665	.0646	.1076	.1210	.0566	.0668	.0154	-.0400	-.0598	-.1532
110.000	.0000	-.2022	-.1827	-.1811	-.1534	-.0898	.0388	.0960	.0913	.0709	.0526	.0131	-.0198	-.0602	-.1381
120.000						-.0541								-.0099	
130.000						-.0421								.0463	
140.000						-.0314								.0662	
150.000						-.0022								.0744	
160.000						.0219								.1036	
170.000						.0272								.1120	
180.000	-.1040	-.0788	-.0501	-.0373	-.0153	.0303	.0541	.1009	.1103	.1136	.1243	.1149	.1147	.1190	.2069

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0038		
70.000							-.0615	-.1349	.0000
80.000							-.0806	-.2009	-.2270
90.000	-.2046	-.2135	-.1913	-.1216	-.0121	.0000	-.0945	-.2228	-.2378
100.000	-.2013	-.1562	-.1205	-.0030	-.0194	-.0869			
110.000	-.1435	-.0667	.0529	.1099	.0798	-.0770			
120.000						.0461			
130.000						.2123			
140.000						.1332			
150.000						.2135			
160.000						.2487			
170.000						.2587			
180.000	-.1435	.2010	.2569	.2990	.3547	.3811			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.101 ALPHA (9) = 8.745

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0493	.0300	-.0832												
70.000	.0812	.0699	.0143												
80.000	.0385	.0850	.0664												
90.000			.0985	-.1742	-.4085	-.3085	-.2227	-.2132	-.1997	-.2354	-.2327	-.2456	-.2261	-.2362	-.2818
100.000						-.3638	-.2694	-.2648	-.2455	-.2467	-.2570	-.3067	-.2858	-.3423	-.2854
110.000						-.4744	-.3469	-.3289	-.3253	-.3422	-.3442	-.3425	-.3492	-.3856	-.3062
120.000						-.4611								.0000	
130.000						-.6579								-.2676	
140.000						-.8073								-.2376	
150.000						-.7487								-.2222	
160.000						-.7166								-.2033	
170.000						-.6943								-.1884	
180.000						-.6179	-.5079	-.4706	-.4504	-.4302	-.3760	-.2847	-.2076	-.1667	-.0954

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2446	-.2417	-.2028	-.1830	-.1566	-.0578	.1001	.1400	.1253	.0773	.0478	-.0136	-.0776	-.1180	-.1691
100.000	-.2748	-.2538	-.2090	-.1995	-.1692	-.0882	.0715	.1124	.1186	.0406	.0440	-.0114	-.0683	-.0900	-.1784
110.000	.0000	-.2345	-.2117	-.2146	-.1853	-.1024	.0437	.0884	.0755	.0455	.0185	-.0262	-.0527	-.0964	-.1665
120.000						-.0318								-.0392	
130.000						-.0192								.0116	
140.000						-.0037								.0191	
150.000						.0227								.0263	
160.000						.0183								.0659	
170.000						.0225								.0742	
180.000	-.0779	-.0560	-.0564	-.0223	.0001	.0334	.0861	.0960	.1159	.1172	.1203	.1048	.0952	.0845	.2318

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0336		
70.000							-.0910	-.1573	.0000
80.000							-.1196	-.2209	-.2511
90.000	-.2333	-.2363	-.2188	-.1480	-.0220	.0000	-.1360	-.2435	-.2644
100.000	-.2245	-.1926	-.1297	-.0211	-.0393	-.1180			
110.000	-.1708	-.1003	.0468	.0929	.0515	-.0938			
120.000						.0586			
130.000						.1988			
140.000						.1107			
150.000						.1675			
160.000						.2594			
170.000						.2289			
180.000	-.1715	.1005	.2574	.3146	.3865	.4080			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.149 ALPHA (1) = -8.323

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4058	.3405	.0859												
70.000	.4792	.3673	.1614												
80.000	.5092	.3349	.1829												
90.000			.1379	-.1248	-.3412	-.3609	-.3688	-.3393	-.3028	-.2621	-.1166	-.0247	.0178	.0393	.0311
100.000						-.3586	-.3774	-.3718	-.3482	-.2658	-.1378	-.0478	.0038	.0037	.0271
110.000						-.4748	-.4279	-.3975	-.3614	-.2815	-.1797	-.0720	-.0166	-.0145	.0141
120.000						-.2806								.0000	
130.000						-.3706								-.0952	
140.000						-.3749								-.1146	
150.000						-.3235								-.1103	
160.000						-.2668								-.1114	
170.000						-.2114								-.1204	
180.000						-.1381	-.0834	-.0584	-.0651	-.0766	-.0759	-.1082	-.1107	-.1213	-.1301

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0432	.0549	.0450	.0374	.0448	.0593	.1407	.1986	.2306	.2383	.2450	.2320	.2220	.2205	.2401
100.000	.0302	.0312	.0280	.0235	.0318	.0546	.0961	.1766	.2091	.2111	.2379	.2306	.2274	.2381	.2423
110.000	.0000	.0212	.0247	.0206	.0169	.0279	.0680	.1515	.1837	.2024	.2246	.2248	.2361	.2444	.2555
120.000						.0215								.2660	
130.000						.0016								.2786	
140.000						.0014								.2864	
150.000						.0335								.2910	
160.000						.0312								.2946	
170.000						.0342								.2946	
180.000	-.1218	-.0937	-.0490	-.0160	.0164	.0353	.0324	.0255	.0317	.0713	.1775	.2230	.2645	.2997	.4476

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1941		
70.000							.1621	.0851	.0000
80.000							.1447	.0627	.0886
90.000	.2700	.2744	.2903	.2831	.2623	.0000	.1351	.0744	.0851
100.000	.2567	.3115	.3130	.3238	.2724	.2005			
110.000	.3074	.3498	.3788	.3664	.2754	.1366			
120.000						.0943			
130.000						.3430			
140.000						.4375			
150.000						.4965			
160.000						.5290			
170.000						.6196			
180.000	.5072	.4748	.5433	.5997	.6505	.6006			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.150 ALPHA (2) = -6.292

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3920	.3265	.0826												
70.000	.4682	.3592	.1610												
80.000	.4683	.3352	.1817												
90.000			.1529	-.1239	-.3412	-.3606	-.3609	-.3415	-.3033	-.2697	-.1484	-.0447	.0160	.0277	.0314
100.000						-.3612	-.3793	-.3784	-.3528	-.2847	-.1561	-.0611	.0016	.0043	.0210
110.000						-.4682	-.4278	-.4045	-.3772	-.3025	-.1874	-.0733	-.0177	-.0058	.0122
120.000						-.2957								.0000	
130.000						-.4098								-.0968	
140.000						-.4197								-.1253	
150.000						-.3705								-.1345	
160.000						-.3165								-.1348	
170.000						-.2558								-.1482	
180.000						-.1828	-.1297	-.1023	-.1015	-.1127	-.1106	-.1304	-.1383	-.1466	-.1469

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0461	.0436	.0462	.0272	.0425	.0844	.1457	.1944	.2233	.2208	.2193	.2012	.1695	.1635	1752
100.000	.0266	.0270	.0201	.0132	.0222	.0473	.1246	.1724	.2093	.2025	.2182	.2041	.1810	.1848	.1910
110.000	.0000	.0318	.0240	.0090	.0072	.0392	.0929	.1489	.1884	.2032	.2099	.2025	.2000	.1964	.2035
120.000						.0219								.2228	
130.000						.0083								.2375	
140.000						.0036								.2446	
150.000						.0330								.2549	
160.000						.0288								.2628	
170.000						.0330								.2570	
180.000	-.1348	-.0973	-.0420	-.0051	.0284	.0353	.0297	.0325	.0378	.1042	.1839	.2017	.2368	.2685	.4173

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9100
PHI									
60.000							.1807		
70.000							.1460	.0503	.0000
80.000							.1279	.0172	.0435
90.000	.2042	.2266	.2647	.2638	.2480	.0000	.1197	.0213	.0457
100.000	.2082	.2727	.2973	.3078	.2574	.1803			
110.000	.2645	.3246	.3615	.3543	.2729	.1313			
120.000						.1087			
130.000						.3462			
140.000						.4166			
150.000						.4702			
160.000						.5015			
170.000						.5868			
180.000	.2647	.4498	.5172	.5662	.6194	.5752			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.190 ALPHA (3) = -4.117

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3760	.3940	.4050	.4310
PHI															
60.000	.3753	.3108	.0775												
70.000	.4403	.3417	.1545												
80.000	.4391	.3247	.1782												
90.000			.1547	-.1239	-.3476	-.3673	-.3660	-.3265	-.2766	-.2545	-.1621	-.0787	-.0167	-.0068	.0072
100.000						-.3677	-.3791	-.3764	-.3401	-.2681	-.1515	-.0782	-.0219	-.0270	-.0005
110.000						-.4624	-.4221	-.4094	-.3875	-.3052	-.1701	-.0639	-.0258	-.0367	.0018
120.000						-.3116								.0000	
130.000						-.4439								-.0859	
140.000						-.4698								-.1190	
150.000						-.4144								-.1423	
160.000						-.3739								-.1633	
170.000						-.3165								-.1763	
180.000						-.2341	-.1741	-.1499	-.1422	-.1499	-.1466	-.1626	-.1713	-.1756	-.1652

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0289	.0365	.0318	.0213	.0323	.0744	.1387	.1894	.2112	.2043	.2001	.1646	.1198	.1001	.0889
100.000	.0197	.0126	.0133	.0129	.0238	.0503	.1285	.1741	.2071	.1812	.1994	.1638	.1330	.1224	.1018
110.000	.0000	.0220	.0171	.0060	.0094	.0289	.0801	.1600	.1823	.1878	.1931	.1707	.1539	.1353	.1168
120.000						.0328								.1633	
130.000						.0226								.1773	
140.000						.0240								.1922	
150.000						.0360								.2003	
160.000						.0346								.2065	
170.000						.0406								.2127	
180.000	-.1296	-.0883	-.0156	.0166	.0342	.0328	.0266	.0484	.0700	.1281	.1677	.1725	.1842	.2164	.3660

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1630		
70.000							.1243	.0254	.0000
80.000							.1078	-.0122	.0115
90.000	.0742	.1313	.1896	.2110	.2127	.0000	.0962	-.0192	.0161
100.000	.0858	.1946	.2267	.2585	.2086	.1422			
110.000	.1778	.2459	.3028	.3048	.2326	.1108			
120.000						.1122			
130.000						.3349			
140.000						.3815			
150.000						.4358			
160.000						.4548			
170.000						.5310			
180.000	.1736	.4101	.4714	.5229	.5674	.5284			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (6) = 1.150 ALPHA (4) = -1.965

SECTION (1) ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.3870	.4260	.4640	.5030	.5420	.5840	.6220	.6610	.6990	.7380	.7770	.8150	.8540	.8910	.9310
PHI															
80.000	.3333	.2923	.0838												
70.000	.3970	.3290	.1547												
60.000	.4181	.3119	.1842												
90.000			.1692	-.1135	-.3357	-.3595	-.3583	-.3043	-.2273	-.2271	-.1668	-.0884	-.0030	.0049	-.0059
100.000						-.3586	-.3763	-.3669	-.2957	-.2338	-.1515	-.0907	-.0127	-.0142	-.0027
110.000						-.4461	-.4092	-.4027	-.3847	-.2765	-.1614	-.0753	-.0076	-.0272	-.0021
120.000						-.3195								.0000	
130.000						-.4671								-.0715	
140.000						-.5108								-.0988	
150.000						-.4561								-.1283	
160.000						-.4193								-.1573	
170.000						-.3644								-.1841	
180.000						-.2773	-.2091	-.1825	-.1737	-.1167	-.1711	-.1838	-.1810	-.1896	-.1453

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0209	.0398	.0313	.0264	.0419	.0788	.1719	.1913	.1959	.1892	.1965	.1530	.0963	.0607	.0433
100.000	.0118	.0148	.0174	.0148	.0221	.0629	.1464	.1719	.1966	.1749	.1594	.1498	.1062	.0874	.0464
110.000	.0000	.0294	.0202	.0020	.0156	.0675	.1278	.1595	.1722	.1701	.1659	.1525	.1279	.0994	.0608
120.000						.0469								.1224	
130.000						.0699								.1433	
140.000						.0590								.1560	
150.000						.0843								.1626	
160.000						.0698								.1682	
170.000						.0862								.1693	
180.000	-.0934	-.0146	.0278	.0460	.0614	.0837	.0636	.0604	.0956	.1363	.1714	.1638	.1672	.1767	.3176

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1371		
70.000							.0938	-.0028	.0000
60.000							.0716	-.0509	-.0358
90.000	.0028	.0322	.1014	.1476	.1632	.0000	.0593	-.0658	-.0240
100.000	.0150	.1014	.1614	.2050	.1644	.1012			
110.000	.0969	.1678	.2496	.2661	.2066	.0698			
120.000						.0977			
130.000						.3136			
140.000						.3415			
150.000						.3693			
160.000						.4004			
170.000						.4738			
180.000	.0903	.3707	.4269	.4720	.5175	.4814			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (M) = 1.151 ALPHA (S) = .166

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE C*

X/L	.0870	.1290	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	3750	.3940	.4050	.4310
PHI															
60.000	.2941	.2409	.0459												
70.000	.3317	.2783	.1143												
80.000	.3325	.2626	.1526												
90.000			.1710	-.1199	-.3374	-.3559	-.3032	-.2119	-.1712	-.2088	-.1774	-.1281	-.0440	-.0082	.0365
100.000						-.3511	-.3659	-.2819	-.2225	-.2024	-.1637	-.1249	-.0459	-.0465	.0254
110.000						-.4399	-.3959	-.3943	-.3092	-.2331	-.1691	-.0888	-.0449	-.0340	.0236
120.000						-.3409								.0000	
130.000						-.5004								-.0600	
140.000						-.5582								-.0841	
150.000						-.4965								-.1000	
160.000						-.4653								-.1280	
170.000						-.4154								-.1555	
180.000						-.3337	-.2602	-.2239	-.2137	-.2086	-.1952	-.2005	-.1880	-.1799	-.0911

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0460	.0251	.0358	.0332	.0521	.1350	.2053	.2205	.2242	.2078	.1688	.1290	.0698	.0387	.0054
100.000	.0321	.0127	.0120	.0265	.0657	.1119	.1911	.2083	.2247	.1871	.1723	.1244	.0838	.0671	.0061
110.000	.0000	.0194	.0221	.0177	.0521	.0983	.1696	.1879	.2109	.2063	.1586	.1292	.1034	.0724	.0196
120.000						.1020								.0984	
130.000						.0887								.1161	
140.000						.0827								.1342	
150.000						.1200								.1462	
160.000						.1266								.1540	
170.000						.1349								.1561	
180.000	-.0271	.0129	.0660	.0770	.0830	.1351	.1257	.1384	.1697	.1683	.1662	.1520	.1589	.1667	.2903

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1071		
70.000							.0585	-.0260	.0000
80.000							.0363	-.0807	-.0769
90.000	-.0429	-.0317	.0248	.1086	.1416	.0000	.0272	-.1061	-.0707
100.000	-.0375	.0374	.0523	.1805	.1428	.0596			
110.000	.0337	.1144	.2122	.2581	.1698	.0317			
120.000						.0867			
130.000						.2926			
140.000						.2849			
150.000						.3335			
160.000						.3661			
170.000						.4297			
180.000	.0361	.3399	.3995	.4394	.4630	.4334			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (6) = 1.192 ALPHA (6) = 2.366

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2460	.1992	.0143												
70.000	.2985	.2506	.1058												
80.000	.3949	.2599	.1366												
90.000			.1485	-.1441	-.3507	-.3625	-.2142	-.1973	-.1233	-.1869	-.1742	-.1527	-.0739	-.0403	-.0147
100.000						-.3422	-.2945	-.1936	-.1538	-.1722	-.1698	-.1675	-.0772	-.0765	-.0105
110.000						-.4273	-.3785	-.3031	-.2265	-.2277	-.1858	-.1191	-.0621	-.0658	-.0178
120.000						-.3560								.0000	
130.000						-.5112								-.0660	
140.000						-.5081								-.0823	
150.000						-.5293								-.0951	
160.000						-.5032								-.1125	
170.000						-.4610								-.1277	
180.000						-.3822	-.2941	-.2633	-.2492	-.2404	-.2290	-.2206	-.1476	-.1344	-.0164

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	.0206	.0159	.0190	.0238	.0478	.1400	.1976	.2206	.2110	.1743	.1568	.0990	.0390	-.0037	-.0246
100.000	.0383	.0032	.0046	0171	.0529	.1340	.1744	.2020	.2109	.1463	.1510	.1007	.0486	.0302	-.0271
110.000	.0000	.0050	.0147	.0004	.0369	.1963	.1645	.1881	.1824	.1654	.1354	.0990	.0691	.0367	-.0122
120.000						.0907								.0629	
130.000						.1117								.0931	
140.000						.1196								.1136	
150.000						.1403								.1278	
160.000						.1408								.1430	
170.000						.1318								.1472	
180.000	.0082	.0436	.0734	.0886	.1040	.1138	.1327	.1583	.1567	.1598	.1584	.1469	.1472	.1526	.2639

X/L	.7270	.7470	.7670	.7850	.8070	.8290	.8620	.9000	.9400
PHI									
80.000							.0723		
70.000							.0250	-.0476	.0000
80.000							.0027	-.1078	-.1147
90.000	-.0035	-.0991	-.0493	.0425	.0898	.0000	-.0048	-.1564	-.1147
100.000	-.0734	-.0337	.0428	.1370	.1039	.0260			
110.000	-.0237	.0388	.1747	.2270	.1554	.0098			
120.000						.0681			
130.000						.2752			
140.000						.2333			
150.000						.2646			
160.000						.3250			
170.000						.3869			
180.000	-.0208	.3073	.3650	.3902	.4155	.3938			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (6) = 1.151 ALPHA (7) = 4.440

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2422	.1778	-.0054												
70.000	.2822	.2434	.0612												
80.000	.2695	.2289	.1201												
90.000			.1430	-.1474	-.3752	-.3609	-.2319	-.1049	-.1039	-.1586	-.1646	-.1615	-.0899	-.0661	-.0346
100.000						-.3648	-.3626	-.1652	-.1303	-.1611	-.1840	-.1875	-.0978	-.1166	-.0127
110.000						-.4388	-.4078	-.2830	-.2027	-.2522	-.2312	-.1519	-.0952	-.0913	-.0227
120.000						-.3776								.0000	
130.000						-.5342								-.0890	
140.000						-.6394								-.0840	
150.000						-.5698								-.0871	
160.000						-.5501								-.0941	
170.000						-.5117								-.0922	
180.000						-.4317	-.3471	-.3011	-.2800	-.2694	-.2391	-.2082	-.1082	-.0669	.0247

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0203	.0113	.0208	.0270	.0325	.0976	.1989	.2213	.2081	.1628	.1373	.0822	.0083	-.0335	-.0678
100.000	.0017	-.0069	-.0039	.0091	.0282	.0838	.1828	.1957	.2006	.1[illegible]	.1414	.0785	.0226	-.0034	-.0728
110.000	.0000	-.0020	-.0030	-.0046	.0040	0669	.1640	.1776	.1697	.1465	.1166	.0746	.0387	-.0076	-.0640
120.000						.0723								.0203	
130.000						.0970								.0576	
140.000						.1023								.0829	
150.000						.1324								.0979	
160.000						.1289								.1106	
170.000						.1165								.1209	
180.000	.0543	.0713	.0868	.0863	.0713	.1214	.1557	.1686	.1706	.1658	.1575	.1400	.1331	.1265	.2261

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0422		
70.000							-.0104	-.0758	.0000
80.000							-.0301	-.1435	-.1520
90.000	-.1329	-.1367	-.1231	-.0214	.0544	.0000	-.0385	-.1701	-.1598
100.000	-.1311	-.0937	-.0852	.0956	.0795	-.0152			
110.000	-.0806	-.0329	.1256	.2100	.1408	-.0065			
120.000						.0935			
130.000						.2655			
140.000						.1949			
150.000						.2583			
160.000						.2918			
170.000						.3474			
180.000	-.0777	.2749	.3309	.3677	.3950	.3802			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.151 ALPHA (8) = 8.582

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4080	.4310
PHI															
60.000	.1904	.1818	.0606												
70.000	.2571	.2278	.1185												
80.000	.2486	.2217	.1509												
90.000			.1756	-.1006	-.2967	-.2306	-.1357	-.1027	-.0966	-.1464	-.1359	-.1258	-.1198	-.1477	-.1466
100.000						-.2444	-.2206	-.1373	-.1182	-.1196	-.1544	-.1723	-.1589	-.2146	-.1124
110.000						-.4749	-.3672	-.2287	-.1907	-.2167	-.2284	-.1907	-.1758	-.1946	-.0980
120.000						-.3668								[illegible]	
130.000						-.5516								-.1134	
140.000						-.6758								-.1145	
150.000						-.6171								-.1027	
160.000						-.5875								-.0918	
170.000						-.5537								-.0755	
180.000						-.4568	-.3658	-.3292	-.3147	-.2886	-.2481	-.1566	-.1038	-.1620	.0023

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0388	-.0138	.0136	.0395	.1095	.1737	.1232	.1683	.1655	.1147	.1151	.0585	-.0060	-.0396	-.1034
100.000	-.0597	-.0354	-.0089	.0264	.0793	.1619	.0954	.1421	.1540	.0822	.1142	.0601	.0945	-.0146	-.1187
110.000	.0000	-.0391	-.0012	.0349	.0127	.1454	.0802	.1232	.1158	.0912	.0868	.0503	.0192	-.0171	-.1055
120.000						.1283								.0076	
130.000						.1092								.0526	
140.000						.0761								.0804	
150.000						.0749								.0945	
160.000						.0740								.1098	
170.000						.0726								.1257	
180.000	.0833	.0888	.1121	.1298	.1351	.0694	.0758	.1090	.1234	.1345	.1518	.1379	.1333	.1327	.2188

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0228		
70.000							-.0292	-.0909	-.0705
80.000							-.0455	-.1581	-.1617
90.000	-.1734	-.1932	-.1861	-.1082	-.0009	.0000	-.0580	-.1808	-.1378
100.000	-.1727	-.1554	-.1314	-.0217	.0306	-.0419			
110.000	-.1256	-.0653	.0613	.1461	.1313	-.0190			
120.000						.1032			
130.000						.2556			
140.000						.1570			
150.000						.2415			
160.000						.2698			
170.000						.2982			
180.000	-.1270	.2341	.2866	.3149	.3875	.3972			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.151 ALPHA (9) = 8.704

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1645	.2035	.2425	.2640	.2825	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1345	.1284	-.0232												
70.000	.1698	.1671	.0666												
80.000	.1056	.1656	.1234												
90.000			.1571	-.1078	-.3288	-.1862	-.1085	-.1042	-.0769	-.0974	-.0981	-.1109	-.1026	-.1063	-.1377
100.000						-.2103	-.1599	-.1669	-.1280	-.1187	-.1204	-.1706	-.1551	-.2016	-.1335
110.000						-.3982	-.2275	-.2291	-.2106	-.2210	-.2046	-.2109	-.1950	-.2232	-.1344
120.000						-.3744								.0000	
130.000						-.5678								-.1026	
140.000						-.7026								-.0731	
150.000						-.6448								-.0589	
160.000						-.6149								-.0458	
170.000						-.5893								-.0249	
180.000						-.5085	-.4027	-.3629	-.3383	-.2941	-.2154	-.1449	-.0459	-.0008	.0612

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0847	-.0698	-.0378	-.0055	.0476	.1753	.2081	.2127	.1867	.1276	.1030	.0434	-.0254	-.0637	-.1233
100.000	-.1000	-.0807	-.0524	-.0220	.0577	.1551	.1775	.1749	.1777	.0914	.0913	.0321	-.0163	-.0376	-.1335
110.000	.0000	-.0698	-.0429	-.0375	.0295	.1303	.1481	.1489	.1374	.0990	.0600	.0203	-.0058	-.0513	-.1264
120.000						.1172								-.0167	
130.000						.1038								.0383	
140.000						.1107								.0562	
150.000						.1305								.0576	
160.000						.1289								.0867	
170.000						.1441								.0991	
180.000	.0743	.0865	.1092	.1135	.1288	.1614	.1584	.1536	.1557	.1481	.1463	.1274	.1191	.1088	.2424

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9490
PHI									
60.000							-.0127		
70.000							-.0618	-.1215	.0000
80.000							-.0860	-.1837	-.2191
90.000	-.1838	-.1954	-.2119	-.1413	-.0088	.0000	-.1004	-.2072	-.2402
100.000	-.1775	-.1726	-.1677	.0003	.0130	-.0662			
110.000	-.1326	-.1201	.0416	.1314	.1087	-.0252			
120.000						.1030			
130.000						.2348			
140.000						.1323			
150.000						.2305			
160.000						.2868			
170.000						.2463			
180.000	-.1299	.1955	.2761	.3381	.4089	.4421			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (PE0011)

MACH (Y) = 1.255 ALPHA (I) = -5.475

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4118	.3855	.1414												
70.000	.4780	.3928	.2131												
80.000	.5000	.3733	.2381												
90.000			.2133	-.0564	-.2659	-.2928	-.3068	-.2988	-.2874	-.3019	-.2530	-.1801	-.0938	-.0700	-.0550
100.000						-.2921	-.3161	-.3212	-.3180	-.2952	-.2450	-.1994	-.1185	-.1034	-.0522
110.000						-.3908	-.3621	-.3503	-.3306	-.2974	-.2401	-.1912	-.1414	-.1337	-.0699
120.000						-.2277								.0000	
130.000						-.3311								-.1309	
140.000						-.3360								-.1260	
150.000						-.2897								-.1166	
160.000						-.2572								-.1160	
170.000						-.2100								-.1224	
180.000						-.1525	-.1141	-.0826	-.0823	-.0875	-.0807	-.0999	-.1107	-.1295	-.1234

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6840	.7100
PHI															
90.000	-.0211	-.0218	-.0083	-.0202	-.0275	-.0458	-.0293	-.0071	.0364	.0711	.0706	.0480	.0388	.0366	.0256
100.000	-.0399	-.0421	-.0304	-.0306	-.0340	-.0512	-.0307	-.0326	.0179	.0409	.0644	.0441	.0337	.0443	.0245
110.000	.0000	-.0475	-.0375	-.0424	-.0455	-.0587	-.0557	-.0421	-.0148	.0233	.0405	.0380	.0346	.0345	.0253
120.000						-.0485								.0216	
130.000						-.0712								.0200	
140.000						-.0762								.0132	
150.000						-.0576								.0012	
160.000						-.0723								-.0483	
170.000						-.0733								-.0221	
180.000	-.1395	-.1387	-.1144	-.1150	-.1044	-.0928	-.0940	-.0857	-.0745	-.0673	-.0497	-.0521	-.0295	-.0226	.1843

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1868		
70.000							.1599	.0829	.0000
80.000							.1355	.0433	.0758
90.000	.0384	.0433	.0972	.1412	.1599	.0000	.1090	.0176	.0847
100.000	.0219	.0875	.1010	.1940	.1878	.0881			
110.000	.0453	.1250	.2288	.2515	.1742	.0758			
120.000						.0944			
130.000						.3642			
140.000						.4407			
150.000						.4353			
160.000						.5367			
170.000						.5061			
180.000	.0487	.2934	.4454	.5090	.5523	.5116			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (PEB511)

MACH (P) = 1.251 ALPHA (Z) = -8.335

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1840	.2035	.2427	.2640	.2920	.3510	.3190	.3380	.3570	.3760	.3940	.4050	.4310
PHI															
60.000	.3725	.3363	.1270												
70.000	.4359	.3725	.2045												
80.000	.4548	.3536	.2295												
90.000			.2156	-.0583	-.2697	-.2980	-.3108	-.3014	-.2902	-.3128	-.2739	-.2100	-.1283	-.1040	-.0873
100.000						-.2993	-.3174	-.3262	-.3247	-.3106	-.2652	-.2285	-.1432	-.1329	-.0856
110.000						-.3849	-.3609	-.3555	-.3461	-.3136	-.2657	-.2145	-.1569	-.1476	-.0696
120.000						-.2473								-.1	
130.000						-.3645								-.1553	
140.000						-.3833								-.1532	
150.000						-.3333								-.1439	
160.000						-.3095								-.1467	
170.000						-.2718								-.1516	
180.000						-.2102	-.1603	-.1307	-.1246	-.1280	-.1229	-.1356	-.1479	-.1533	-.1540

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.654	.6731	.6880	.7100
PHI															
90.000	-.0557	-.0481	-.0310	-.0400	-.0460	-.0625	-.0549	-.0399	-.0011	.0345	.0515	.0292	.0177	.0109	-.0086
100.000	-.0686	-.0696	-.0511	-.0481	-.0498	-.0735	-.0751	-.0623	-.0225	.0000	.0445	.0293	.0134	.0217	-.0142
110.000	.0000	-.0662	-.0549	-.0559	-.0534	-.0731	-.0754	-.0635	-.0468	-.0102	.0241	.0275	.0212	.0	-.0127
120.000						-.0630								.0144	
130.000						-.0897								-.0006	
140.000						-.0973								-.0083	
150.000						-.0858								-.0191	
160.000						-.0948								-.0 7	
170.000						-.0954								-.05 2	
180.000	-.1622	-.1575	-.1529	-.1312	-.1234	-.1372	-.1073	-.0979	-.0908	-.0827	-.0645	-.0685	-.0566	-.0469	.1440

X/L	.7290	.7470	.7670	.7850	.8030	.8220	.8620	.9000	.9400
PHI									
60.000							.1503		
70.000							.1183	.0600	.0000
80.000							.0945	.0050	.0272
90.000	-.0147	-.0143	.0371	.0798	.0964	.0000	.0667	-.0185	.0415
100.000	-.0323	.0225	.0434	.1471	.1258	.0391			
110.000	.0009	.0831	.1763	.2088	.1457	.0371			
120.000						.0961			
130.000						.1460			
140.000						.3965			
150.000						.4445			
160.000						.4825			
170.000						.5347			
180.000	.0012	.2585	.3940	.4554	.4955	.5449			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8011)

MACH (F) = 1.249 ALPHA (B) = -4.087

SECTION (1)CFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.3259	.2939	.1794												
70.000	.3822	.3372	.1893												
80.000	.3964	.3178	.2186												
90.000			.2144	-.0599	-.2754	-.3033	-.3167	-.3045	-.2903	-.3167	-.2842	-.2305	-.1535	-.1323	-.1228
100.000						-.3018	-.3244	-.3322	-.3256	-.3176	-.2810	-.2504	-.1621	-.1545	-.1092
110.000						-.3632	-.3629	-.3535	-.3584	-.3370	-.2456	-.2265	-.1715	-.1670	-.1072
120.000						-.2661								-.1600	
130.000						-.3353								-.1774	
140.000						-.4307								-.1767	
150.000						-.3752								-.1747	
160.000						-.3544								-.1678	
170.000						-.3234								-.1669	
180.000						-.2635	-.2095	-.1791	-.1734	-.1719	-.1629	-.1770	-.1831	-.1870	-.1869

X/L	.4500	.4680	.4860	.5050	.5270	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0851	-.0805	-.0592	-.0663	-.0693	-.0853	-.0729	-.0658	-.0356	.0034	.0215	.0107	.0067	.0049	-.0204
100.000	-.0936	-.0956	-.0773	-.0726	-.0748	-.0936	-.0912	-.0820	-.0475	-.0285	.0142	.0080	.0053	.0177	-.0212
110.000	.0000	-.0882	-.0809	-.0783	-.0831	-.0924	-.0915	-.0858	-.0651	-.0370	-.0064	.0031	.0012	.0146	-.0139
120.000						-.0860								-.0026	
130.000						-.1083								-.0059	
140.000						-.1157								-.0188	
150.000						-.1000								-.0361	
160.000						-.1117								-.0461	
170.000						-.1103								-.0634	
180.000	-.1931	-.1770	-.1550	-.1460	-.1327	-.1133	-.1157	-.1100	-.1020	-.0988	-.0794	-.0792	-.0711	-.0627	.1169

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
80.000							.1060		
70.000							.0681	.0134	.0000
80.000							.0491	-.0343	-.0230
90.000	-.0376	-.0504	-.0041	.0419	.0616	.0000	.0186	-.0584	-.0103
100.000	-.0504	-.0113	.0140	.1180	.0946	.0119			
110.000	-.0165	.0316	.1472	.1918	.1221	.0220			
120.000						.1099			
130.000						.3390			
140.000						.3534			
150.000						.3262			
160.000						.4163			
170.000						.4667			
180.000	-.0135	.2436	.3617	.4150	.4452	.4499			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (7) = 1.250 ALPHA (4) = -2.025

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
65.000	.2815	.2590	.0642												
70.000	.3387	.2994	.1511												
80.000	.3496	.2803	.1920												
90.000			.1997	-.0734	-.2906	-.3075	-.3176	-.3021	-.2851	-.3101	-.2771	-.2264	-.1661	-.1452	-.1439
100.000						-.3092	-.3280	-.3353	-.3219	-.3139	-.2878	-.2536	-.1719	-.1722	-.1274
110.000						-.3900	-.3751	-.3646	-.3624	-.3513	-.2997	-.2378	-.1751	-.1632	-.1203
120.000						-.2898								.0000	
130.000						-.4220								-.1836	
140.000						-.4700								-.1976	
150.000						-.4139								-.2017	
160.000						-.3962								-.2170	
170.000						-.3667								-.2212	
180.000						-.3153	-.2546	-.2216	-.2175	-.2145	-.2036	-.2151	-.2190	-.2236	-.2173

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1079	-.1045	-.0814	-.0884	-.0872	-.1001	-.0871	-.0745	-.0448	.0001	.0151	-.0061	-.0037	-.0152	-.0364
100.000	-.1166	-.1220	-.1038	-.0967	-.0935	-.1121	-.1116	-.0933	-.0563	-.0308	.0112	-.0085	-.0135	.0095	-.0336
110.000	.0000	-.1104	-.1008	-.0986	-.1028	-.1116	-.1090	-.0942	-.0762	-.0572	-.0085	-.0102	-.0154	.0063	-.0247
120.000						-.1099								-.0121	
130.000						-.1355								-.0140	
140.000						-.1356								-.0182	
150.000						-.1192								-.0272	
160.000						-.1211								-.0353	
170.000						-.1189								-.0513	
180.000	-.2183	-.1967	-.1701	-.1579	-.1391	-.1140	-.1149	-.1071	-.0993	-.0945	-.0769	-.0751	-.0574	-.0508	.1109

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0659		
70.000							.0307	-.0213	.0000
80.000							.0091	-.0714	-.0701
90.000	-.0840	-.0789	-.0505	-.0004	.0278	.0000	-.0081	-.0969	-.0668
100.000	-.0756	-.0558	-.0486	.0885	.0703	-.0015			
110.000	-.0426	-.0316	.1187	.1772	.1239	.0041			
120.000						.1132			
130.000						.3243			
140.000						.3109			
150.000						.3451			
160.000						.3606			
170.000						.3985			
180.000	-.0390	.2268	.3298	.3758	.4044	.4364			

AMES 65-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (M) = 1.250 ALPHA (S) = .189

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
65.000	.2584	.2523	.0562												
75.000	.3064	.2802	.1337												
85.000	.3062	.2766	.1778												
95.000			.1991	-.0767	-.3148	-.3495	-.3691	-.3514	-.3420	-.2938	-.2373	-.2077	-.1638	-.1321	-.1499
100.000						-.3491	-.3696	-.3771	-.3713	-.3633	-.2794	-.2357	-.1689	-.1604	-.1387
110.000						-.4005	-.3989	-.3995	-.3989	-.4116	-.3594	-.2188	-.1657	-.1659	-.1291
120.000						-.3143								.0000	
130.000						-.4482								-.2038	
140.000						-.5111								-.2347	
150.000						-.4536								-.2476	
160.000						-.4346								-.2534	
170.000						-.4084								-.2607	
180.000						-.3599	-.2914	-.2605	-.2572	-.2550	-.2443	-.2540	-.2608	-.2646	-.2585

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6865	.7100
PHI															
90.000	-.1128	-.1055	-.0909	-.0896	-.0858	-.1011	-.0910	-.0794	-.0459	-.0112	.0007	-.0326	-.0480	-.0290	-.0591
100.000	-.1238	-.1280	-.1113	-.1019	-.0945	-.1109	-.1125	-.0984	-.0602	-.0411	-.0062	-.0309	-.0580	-.0142	-.0555
110.000	.0000	-.1174	-.1087	-.1106	-.1084	-.1208	-.1160	-.1063	-.0842	-.0508	-.0283	-.0233	-.0388	-.0162	-.0469
120.000						-.1289								-.0287	
130.000						-.1453								-.0230	
140.000						-.1488								-.0166	
150.000						-.1308								-.0161	
160.000						-.1263								-.0294	
170.000						-.1165								-.0290	
180.000	-.2552	-.2281	-.1940	-.1665	-.1379	-.1112	-.1023	-.0932	-.0849	-.0754	-.0558	-.0516	-.0392	-.0252	.1161

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9490
PHI									
65.000							.0292		
75.000							.0002	-.0520	.0000
85.000							-.0198	-.1086	-.1168
95.000	-.0990	-.1269	-.1004	-.0401	.0054	.0000	-.0422	-.1299	-.1229
100.000	-.1130	-.0977	-.0937	.0643	.0539	-.0286			
110.000	-.0713	-.0612	.0752	.1641	.1077	-.0088			
120.000						.1100			
130.000						.2980			
140.000						.2481			
150.000						.2757			
160.000						.3074			
170.000						.3632			
180.000	-.0748	.2279	.2905	.3247	.3455	.3745			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (M) = 1.250 ALPHA (A) = 2.343

SECTION (1/ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2563	.1981	.0296												
70.000	.2754	.2431	.1121												
80.000	.2581	.2325	.1613												
90.000			.1944	-.0779	-.3257	-.3683	-.3856	-.3835	-.3755	-.3539	-.2312	-.2016	-.1649	-.1563	-.1426
100.000						-.3662	-.3820	-.4004	-.4045	-.3966	-.3235	-.2370	-.1756	-.1878	-.1312
110.000						-.4021	-.4070	-.4174	-.4256	-.4410	-.4140	-.2668	-.1787	-.1780	-.1326
120.000						-.3287								.0000	
130.000						-.4688								-.2282	
140.000						-.5472								-.2704	
150.000						-.4916								-.2817	
160.000						-.4688								-.2887	
170.000						-.4450								-.2956	
180.000						-.4004	-.3259	-.2971	-.2932	-.2900	-.2809	-.2883	-.2946	-.2987	-.2899

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1081	-.1097	-.0897	-.0900	-.0941	-.1114	-.0969	-.0820	-.0589	-.0316	-.0188	-.0497	-.0993	-.0618	-.0821
100.000	-.1181	-.1236	-.1053	-.0985	-.1006	-.1228	-.1215	-.1124	-.0717	-.0639	-.0173	-.0459	-.0851	-.0378	-.0813
110.000	.0000	-.1158	-.1065	-.1143	-.1187	-.1365	-.1302	-.1181	-.0993	-.0672	-.0356	-.0400	-.0640	-.0421	-.0700
120.000						-.1489								-.0463	
130.000						-.1640								-.0257	
140.000						-.1504								-.0161	
150.000						-.1226								-.0079	
160.000						-.1091								-.0009	
170.000						-.0946								-.0010	
180.000	-.2803	-.2469	-.1989	-.1574	-.1112	-.0848	-.0796	-.0708	-.0653	-.0554	-.0433	-.0344	-.0171	.0022	.1230

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0060		
70.000							-.0210	-.0736	.0000
80.000							-.0480	-.1301	-.1502
90.000	-.1186	-.1645	-.1393	-.0877	-.0205	.0000	-.0730	-.1502	-.1621
100.000	-.1369	-.1392	-.1292	.0403	.0414	-.0359			
110.000	-.0944	-.0973	.0367	.1508	.1106	-.0066			
120.000						.1205			
130.000						.2802			
140.000						.1968			
150.000						.2188			
160.000						.2565			
170.000						.3096			
180.000	-.0952	.2018	.2331	.2581	.2872	.3114			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (7) = 1.250 ALPHA (7) = 4.473

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2160	.1584	.0008												
70.000	.2467	.1997	.0825												
80.000	.2160	.2085	.1404												
90.000			.1877	-.0755	-.3317	-.3750	-.3921	-.3897	-.3817	-.3734	-.2441	-.1917	-.1594	-.1496	-.1403
100.000						-.3774	-.3895	-.4040	-.4074	-.3989	-.3368	-.2533	-.1916	-.1974	-.1332
110.000						-.4004	-.4091	-.4222	-.4322	-.4494	-.4283	-.3044	-.2088	-.1949	-.1411
120.000						-.3393								.0000	
130.000						-.4863								-.2494	
140.000						-.5831								-.2811	
150.000						-.5264								-.3042	
160.000						-.4999								-.3167	
170.000						-.4795								-.3242	
180.000						-.4392	-.3570	-.3271	-.3247	-.3201	-.3111	-.3203	-.3232	-.3266	-.3162

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1093	-.1130	-.1001	-.1032	-.1018	-.1209	-.1077	-.0989	-.0759	-.0504	-.0396	-.0755	-.0997	-.0854	-.0974
100.000	-.1144	-.1286	-.1169	-.1145	-.1133	-.1369	-.1394	-.1299	-.0928	-.0959	-.0393	-.0607	-.0990	-.0553	-.0968
110.000	.0000	-.1181	-.1191	-.1298	-.1411	-.1601	-.1514	-.1406	-.1286	-.0935	-.0695	-.0591	-.0798	-.0593	-.0929
120.000						-.1777								-.0603	
130.000						-.1812								-.0344	
140.000						-.1439								-.0128	
150.000						-.1015								.0030	
160.000						-.0920								.0248	
170.000						-.0781								.0299	
180.000	-.2982	-.2447	-.1743	-.1150	-.0776	-.0624	-.0617	-.0560	-.0497	-.0452	-.0282	-.0186	.0026	.0352	.1237

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0233		
70.000							-.0587	-.0927	.0000
80.000							-.0881	-.1459	-.1671
90.000	-.1344	-.1904	-.1781	-.1511	-.0505	.0000	-.1156	-.1732	-.1879
100.000	-.1478	-.1879	-.1765	-.0006	.0135	-.0559			
110.000	-.1153	-.1313	-.0224	.1286	.1005	-.0156			
120.000						.1247			
130.000						.2741			
140.000						.1472			
150.000						.1877			
160.000						.2239			
170.000						.2735			
180.000	-.1158	.1622	.1924	.2247	.2636	.2896			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (M) = 1.250 ALPHA (B) = 6.650

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3390	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1917	.1260	-.0638												
70.000	.2072	.1538	.0378												
80.000	.1725	.1599	.1137												
90.000			.1744	-.0736	-.3385	-.3807	-.3953	-.3875	-.3654	-.3261	-.2033	-.1676	-.1367	-.1371	-.1647
100.000						-.3800	-.3928	-.4054	-.3962	-.3809	-.2836	-.2176	-.1803	-.2116	-.1584
110.000						-.3973	-.4093	-.4243	-.4326	-.4443	-.4067	-.2811	-.2166	-.2201	-.1727
120.000						-.3490								.0000	
130.000						-.5016								-.2408	
140.000						-.6154								-.2699	
150.000						-.5630								-.3036	
160.000						-.5288								-.3277	
170.000						-.5111								-.3440	
180.000						-.4737	-.3838	-.3569	-.3538	-.3496	-.3402	-.3457	-.3477	-.3484	-.3252

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1206	-.1390	-.1254	-.1288	-.1298	-.1437	-.1296	-.1167	-.0942	-.0742	-.0407	-.0671	-.0799	-.0946	-.1215
100.000	-.1452	-.1612	-.1474	-.1430	-.1396	-.1654	-.1634	-.1570	-.1103	-.1184	-.0457	-.0626	-.0725	-.0694	-.1238
110.000	.0000	-.1522	-.1459	-.1595	-.1712	-.1918	-.1819	-.1741	-.1524	-.1229	-.0544	-.0571	-.0694	-.0749	-.1204
120.000						-.2096								-.0740	
130.000						-.1867								-.0385	
140.000						-.1436								-.0169	
150.000						-.0930								-.0007	
160.000						-.0721								.0155	
170.000						-.0[illegible]								.0251	
180.000	-.2877	-.1688	-.1030	-.0793	-.0644	-.05[illegible]	-.0549	-.0499	-.0452	-.0395	-.0276	-.0183	.0056	.0253	.1065

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0517		
70.000							-.0952	-.1022	.0000
80.000							-.1289	-.1601	-.1801
90.000	-.1612	-.2278	-.2186	-.2198	-.0808	.0000	-.1410	-.1997	-.1989
100.000	-.1786	-.2031	-.2147	-.0436	-.0147	-.0656			
110.000	-.1408	-.1691	-.0780	.0963	.0845	-.0209			
120.000						.1299			
130.000						.2641			
140.000						.1327			
150.000						.1970			
160.000						.2211			
170.000						.2461			
180.000	-.1392	.1593	.2021	.2366	.2750	.2920			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (M) = 1.249 ALPHA (A) = 8.754

SECTION (1)068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.3220	.3610	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1515	.0879	-.1165												
90.000	.1569	.1089	-.0281												
95.000	.1273	.1072	.0603												
95.000			.1462	-.0744	-.3400	-.3793	-.3862	-.3699	-.3284	-.2014	-.1380	-.1356	-.1273	-.1326	-.1751
100.000						-.3752	-.3925	-.3952	-.3692	-.2874	-.1807	-.1892	-.1690	-.2121	-.1867
110.000						-.3965	-.4058	-.4189	-.4180	-.4098	-.3001	-.2346	-.2228	-.2506	-.2251
120.000						-.3546								-.2500	
130.000						-.5185								-.2462	
140.000						-.6459								-.2479	
150.000						-.5997								-.2726	
160.000						-.5591								-.3092	
170.000						-.5473								-.3470	
180.000						-.5059	-.4141	-.3865	-.3816	-.3772	-.3624	-.3685	-.3643	-.3562	-.2945

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1533	-.1714	-.1655	-.1685	-.1641	-.1714	-.1533	-.1405	-.1165	-.0546	-.0294	-.0812	-.0906	-.1091	-.1397
100.000	-.1956	-.2095	-.1926	-.1799	-.1707	-.1897	-.1866	-.1806	-.1312	-.1191	-.0447	-.0772	-.0915	-.0882	-.1482
110.000	.0000	-.2124	-.2002	-.2009	-.2031	-.2207	-.2135	-.2018	-.1745	-.1310	-.0584	-.0787	-.0913	-.1036	-.1489
120.000						-.2329								-.0906	
130.000						-.1761								-.0523	
140.000						-.1274								-.0344	
150.000						-.0746								-.0212	
160.000						-.0654								.0007	
170.000						-.0542								.0116	
180.000	-.2081	-.1095	-.0753	-.0643	-.0533	-.0458	-.0490	-.0534	-.0497	-.0478	-.0250	-.0150	.0041	.0157	.1281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0856		
90.000							-.1304	-.1302	.0000
95.000							-.1672	-.1853	-.2012
95.000	-.1628	-.2425	-.2439	-.2544	-.1036	.0000	-.1597	-.2328	-.2264
100.000	-.1906	-.2320	-.2407	-.0637	-.0535	-.0844			
110.000	-.1257	-.2122	-.0483	.0582	.0472	-.0329			
120.000						.1417			
130.000						.2559			
140.000						.1255			
150.000						.2096			
160.000						.2457			
170.000						.2197			
180.000	-.1854	.1119	.2064	.2793	.3135	.3577			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICL (REB011)

MACH (0) = 1.398 ALPHA (1) = -6.775

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2710	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4365	.4013	.1913												
70.000	.4995	.4350	.2726												
80.000	.5203	.4234	.3033												
90.000			.2938	.0393	-.1518	-.1844	-.1934	-.1991	-.1928	-.2093	-.1817	-.1453	-.0913	-.0698	-.0349
100.000						-.1852	-.2057	-.2108	-.2157	-.2106	-.1731	-.1310	-.0981	-.0967	-.0444
110.000						-.2710	-.2456	-.2420	-.2278	-.2138	-.1774	-.1295	-.0976	-.0956	-.0617
120.000						-.1570								.0000	
130.000						-.2263								-.0686	
140.000						-.2426								-.0638	
150.000						-.1971								-.0566	
160.000						-.1768								-.0571	
170.000						-.1556								-.0612	
180.000						-.1030	-.0579	-.0317	-.0273	-.0305	-.0218	-.0379	-.0477	-.0589	-.0607

X/L	.4800	.4880	.4650	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0012	.0107	.0293	.0235	.0218	.0061	.0101	.0081	.0214	.0505	.0855	.0762	.0520	.0451	.0465
100.000	-.0157	-.0092	.0073	.0129	.0121	-.0015	-.0077	-.0063	.0123	.0177	.0646	.0719	.0566	.0537	.0463
110.000	.0090	-.0140	-.0010	.0007	.0002	-.0092	-.0088	-.0077	-.0033	.0094	.0338	.0542	.0585	.0477	.0400
120.000						-.0164								.0308	
130.000						-.0309								.0179	
140.000						-.0378								.0090	
150.000						-.0199								.0012	
160.000						-.0331								-.0027	
170.000						-.0363								-.0097	
180.000	-.0897	-.0699	-.0556	-.0531	-.0513	-.0495	-.0604	-.0391	-.0574	-.0452	-.0192	-.0162	-.0117	-.0057	.1812

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1907		
70.000							.1592	.0996	.0000
80.000							.1269	.0541	.0576
90.000	.0903	.0025	.0820	.1193	.1300	.0000	.0951	.0269	.0615
100.000	.0281	.0321	.0830	.1644	.1762	.1005			
110.000	.0436	.0566	.1907	.2491	.1970	.0691			
120.000						.1639			
130.000						.4224			
140.000						.4673			
150.000						.5083			
160.000						.5674			
170.000						.5490			
180.000	.0438	.0636	.3761	.4532	.5029	.5857			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REF011)

MACH (0) = 1.400 ALPHA (2) = -6.475

SECTION (1):FUS. FUSELAGE DEPENDENT VARIABLE CP

Z/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3930	.4050	.4310
PHI															
60.000	.3952	.3721	.1650												
70.000	.4529	.4073	.2510												
80.000	.4613	.3954	.2696												
90.000			.2954	.0249	-.1668	-.2211	-.1943	-.1979	-.1901	-.2147	-.1913	-.1662	-.1228	-.1025	-.0719
100.000						-.2224	-.2256	-.2142	-.2156	-.2151	-.1875	-.1743	-.1226	-.1244	-.0780
110.000						-.2942	-.2793	-.2512	-.2355	-.2269	-.1926	-.1471	-.1154	-.1200	-.0816
120.000						-.1676								.0000	
130.000						-.2635								-.0892	
140.000						-.2856								-.0877	
150.000						-.2368								-.0853	
160.000						-.2194								-.0902	
170.000						-.2124								-.1014	
180.000						-.1570	-.1042	-.0779	-.0748	-.0753	-.0664	-.0812	-.0948	-.1025	-.0996

Z/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0343	-.0262	-.0071	-.0099	-.0057	-.0185	-.0146	-.0117	-.0108	.0276	.0544	.0433	.0158	.0024	.0116
100.000	-.0489	-.0466	-.0315	-.0201	-.0131	-.0292	-.0330	-.0300	-.0107	-.0094	.0577	.0385	.0220	.0163	.0116
110.000	.0000	-.0427	-.0302	-.0275	-.0236	-.0328	-.0303	-.0283	-.0274	-.0122	.0067	.0261	.0309	.0120	.0095
120.000						-.0343								.0120	
130.000						-.0625								.0011	
140.000						-.0707								-.0114	
150.000						-.0544								-.0201	
160.000						-.0665								-.0256	
170.000						-.0682								-.0358	
180.000	-.1088	-.1082	-.0884	-.0836	-.0785	-.0790	-.0882	-.0693	-.0784	-.0675	-.0454	-.0440	-.0365	-.0313	.1484

Z/L	.7290	.7470	.7670	.7950	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1395		
70.000							.1093	.0615	.0000
80.000							.0611	.0155	.0023
90.000	-.0159	-.0223	.0298	.0781	.0851	.0000	.0499	-.0064	.0014
100.000	-.0196	-.0010	.0305	.1526	.1403	.0634			
110.000	.0191	.0215	.1374	.2131	.1751	.0710			
120.000						.1677			
130.000						.4047			
140.000						.4705			
150.000						.4439			
160.000						.4943			
170.000						.5291			
180.000	.0193	.0418	.3287	.4053	.4457	.5241			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.398 ALPHA (3) = -4.280

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1250	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3585	.3334	.1410												
70.000	.4081	.3726	.2314												
80.000	.4131	.3582	.2767												
90.000			.2893	.0232	-.19 2	-.2400	-.2534	-.2612	-.1918	-.2148	-.1979	-.1792	-.1366	-.1203	-.0976
100.000						-.2394	-.2579	- 2669	-.2711	-.2199	-.2025	-.1868	-.1386	-.1399	-.0935
110.000						- 2970	-.2849	-.2929	-.2897	-.2770	-.2098	-.1657	-.1327	-.1312	-.0933
120.000						-.1819								.0000	
130.000						-.2884								-.1169	
140.000						-.3236								-.1277	
150.000						-.2733								-.1371	
160.000						-.2583								-.1368	
170.000						-.2399								-.1407	
180.000						-.2014	-.1441	-.1178	-.1142	-.1181	-.1086	-.1195	-.1259	-.1366	-.1401

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0623	-.0555	-.0308	-.0333	-.0277	-.0378	-.0270	-.0288	-.0184	.0092	.0347	.0183	-.0114	-.0308	-.0203
100.000	-.0711	-.0684	-.0499	-.0406	-.0376	-.0475	-.0459	-.0426	-.0240	-.0235	.0188	.0173	-.0020	-.0136	-.0207
110.000	.0000	-.0605	-.0503	-.0499	-.0481	-.0526	-.0469	-.0446	-.0389	-.0278	-.0067	.0051	.0039	-.0067	-.0237
120.000						-.0570								-.0116	
130.000						-.0812								-.0198	
140.000						-.0938								-.0303	
150.000						-.0774								-.0384	
160.000						-.0915								-.0447	
170.000						-.0935								-.0545	
180.000	-.1467	-.1411	-.1220	-.1187	-.1134	-.1002	-.1042	-.0824	-.0915	-.0844	-.0647	-.0643	-.0538	-.0509	.1170

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0920		
70.000							.0606	.0268	.0000
80.000							.0364	-.0218	-.0392
90.000	-.0360	-.0703	-.0202	.0340	.0524	.0000	.0082	-.0450	-.0434
100.000	-.0519	-.0419	-.0140	.1175	.1928	.0359			
110.000	-.0173	-.0170	.0913	.1916	.1568	.0586			
120.000						.1751			
130.000						.3876			
140.000						.3630			
150.000						.3791			
160.000						.4239			
170.000						.4625			
180.000	-.0170	.0645	.2932	.3693	.4020	.4775			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.399 ALPHA (4) = -2.124

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3264	.2803	.1292												
70.000	.3675	.3243	.2068												
80.000	.3606	.3368	.2551												
90.000			.2813	.0242	-.1997	-.2308	-.2465	-.2534	-.2551	-.2746	-.2353	-.1989	-.1445	-.1273	-.1138
100.000						-.2272	-.2472	-.2616	-.2712	-.2825	-.2625	- 2376	-.1584	-.1548	-.1002
110.000						-.2894	-.2806	-.2835	-.2875	-.3041	-.2839	-.2242	-.1789	-.1587	-.0989
120.000						-.1987								.0000	
130.000						-.3117								-.1640	
140.000						-.3584								-.1638	
150.000						-.3098								-.1614	
160.000						-.2931								-.1628	
170.000						-.2777								-.1673	
180.000						-.2486	-.1811	-.1573	-.1530	-.1535	-.1466	-.1527	-.1612	-.1689	-.1656

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0787	-.0778	-.0545	-.0558	-.0493	-.0589	-.0429	-.0429	-.0335	-.0080	.0163	.0001	-.0287	-.0525	-.0451
100.000	-.0825	-.0865	-.0729	-.0650	-.0555	-.0686	-.0636	-.0611	-.0496	-.0441	.0000	-.0053	-.0252	-.0346	-.0513
110.000	.0000	-.0712	-.0647	-.0673	-.0678	-.0729	-.0659	-.0579	-.0547	-.0472	-.0272	-.0174	-.0180	-.0292	-.0527
120.000						-.0758								-.0356	
130.000						-.0988								-.0379	
140.000						-.1097								-.0429	
150.000						-.0965								-.0503	
160.000						-.1085								-.0568	
170.000						-.1162								-.0625	
180.000	-.1736	-.1744	-.1559	-.1484	-.1400	-.1260	-.1259	-.0976	-.1008	-.0931	-.0757	-.0753	-.0660	-.0600	.0907

X/L	.7270	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0544		
70.000							.0290	-.0028	.0000
80.000							.0076	-.0513	-.0696
90.000	-.0576	-.0976	-.0630	-.0082	.0225	.0000	-.0118	-.0722	-.0832
100.000	-.0742	-.0737	-.0620	.0867	.0883	.0265			
110.000	-.0427	-.0449	.0393	.1705	.1532	.0544			
120.000						.1818			
130.000						.3710			
140.000						.3104			
150.000						.3254			
160.000						.3455			
170.000						.3798			
180.000	-.0441	.0987	.2720	.3253	.3601	.4149			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A29/0A63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.399 ALPHA (5) = -.004

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2923	.2437	.1188												
70.000	.3324	.2669	.1947												
80.000	.3168	.2600	.2475												
90.000			.2823	.0346	-.1945	-.2351	-.2517	-.2612	-.2660	-.2969	-.2884	-.2851	-.2167	-.1644	-.1250
100.000						-.2352	-.2513	-.2696	-.2809	-.2936	-.2977	-.3100	-.2497	-.2317	-.1169
110.000						-.2761	-.2766	-.2883	-.2967	-.3221	-.3120	-.2832	-.2569	-.2425	-.1309
120.000						-.2026								.0000	
130.000						-.3287								-.1937	
140.000						-.3882								-.1927	
150.000						-.3420								-.1880	
160.000						-.3241								-.1883	
170.000						-.3114								-.1944	
180.000						-.2899	-.2152	-.1898	-.1852	-.1849	-.1743	-.1824	-.1888	-.1950	-.1906

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0870	-.0835	-.0628	-.0676	-.0644	-.0692	-.0579	-.0537	-.0428	-.0144	.0056	-.0119	-.0452	-.0687	-.0581
100.000	-.0884	-.0865	-.0789	-.0743	-.0702	-.0817	-.0751	-.0711	-.0530	-.0488	-.0077	-.0139	-.0339	-.0510	-.0639
110.000	.0000	-.0766	-.0733	-.0781	-.0825	-.0889	-.0809	-.0737	-.0674	-.0562	-.0370	-.0266	-.0326	-.0503	-.0656
120.000						-.0924								-.0594	
130.000						-.1130								-.0539	
140.000						-.1221								-.0513	
150.000						-.1134								-.0552	
160.000						-.1276								-.0592	
170.000						-.1383								-.0642	
180.000	-.1950	-.1924	-.1814	-.1779	-.1683	-.1553	-.1500	-.1140	-.1222	-.1072	-.0843	-.0784	-.0651	-.0579	.0763

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0148		
70.000							-.0097	-.0341	.0000
80.000							-.0255	-.0810	-.1069
90.000	-.0742	-.1117	-.1009	-.0613	.0039	.0000	-.0436	-.1016	-.1202
100.000	-.0883	-.1001	-.1009	.0546	.0725	.0047			
110.000	-.0692	-.0716	-.0160	.1567	.1390	.0491			
120.000						.1816			
130.000						.3446			
140.000						.2587			
150.000						.2638			
160.000						.2964			
170.000						.3386			
180.000	-.0672	.1435	.2460	.2888	.3134	.3567			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.401 ALPHA (6) = 2.196

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2734	.2338	.0898												
70.000	.3022	.2554	.1637												
80.000	.2818	.2559	.2267												
90.000			.2764	.0410	-.2007	-.2407	-.2640	-.2701	-.2739	-.3052	-.3024	-.3087	-.2901	-.2563	-.1483
100.000						-.2404	-.2593	-.2782	-.2886	-.3019	-.3101	-.3307	-.3023	-.3050	-.1601
110.000						-.2689	-.2788	-.2930	-.3045	-.3327	-.3340	-.3151	-.2904	-.2954	-.2146
120.000						-.2092								.0000	
130.000						-.3413								-.2225	
140.000						-.4191								-.2190	
150.000						-.3744								-.2141	
160.000						-.3489								-.2159	
170.000						-.3366								-.2161	
180.000						-.3181	-.2426	-.2150	-.2107	-.2110	-.2018	-.2090	-.2157	-.2200	-.2169

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1025	-.0936	-.0757	-.0724	-.0716	-.0815	-.0637	-.0562	-.0378	-.0079	.0074	-.0170	-.0573	-.0820	-.0729
100.000	-.1066	-.0962	-.0844	-.0806	-.0792	-.0879	-.0819	-.0724	-.0507	-.0507	-.0115	-.0225	-.0449	-.0665	-.0785
110.000	.3000	-.0913	-.0829	-.0856	-.0874	-.0952	-.0896	-.0824	-.0746	-.0595	-.0381	-.0357	-.0471	-.0737	-.0815
120.000						-.1103								-.0788	
130.000						-.1269								-.0693	
140.000						-.1347								-.0521	
150.000						-.1327								-.0479	
160.000						-.1486								-.0451	
170.000						-.1626								-.0464	
180.000	-.2211	-.2131	-.2037	-.2011	-.1940	-.1810	-.1705	-.1229	-.1267	-.1023	-.0780	-.0683	-.0511	-.0436	.0754

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0141		
70.000							-.0405	-.0559	.0000
80.000							-.0641	-.1032	-.1324
90.000	-.0848	-.1192	-.1379	-.1206	-.0235	.0000	-.0654	-.1290	-.1477
100.000	-.1045	-.1225	-.1364	.0222	.0609	-.0025			
110.000	-.0875	-.0910	-.0683	.1388	.1347	.0501			
120.000						.1894			
130.000						.3210			
140.000						.2014			
150.000						.2064			
160.000						.2471			
170.000						.2908			
180.000	-.0691	.1473	.2121	.2356	.2605	.2985			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.399 ALPHA (7) = 4.288

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2675	.2200	.0321												
70.000	.2777	.2391	.1197												
80.000	.2543	.2408	.1969												
90.000			.2657	.0402	-.2066	-.2536	-.2710	-.2809	-.2876	-.3178	-.3115	-.3199	-.2973	-.2819	-.1875
100.000						-.2539	-.2666	-.2862	-.2957	-.3124	-.3209	-.3427	-.3247	-.3264	-.2062
110.000						-.2694	-.2784	-.3010	-.3166	-.3436	-.3511	-.3454	-.3265	-.3278	-.2507
120.000						-.2201								.0000	
130.000						-.3576								-.2492	
140.000						-.4528								-.2412	
150.000						-.4100								-.2405	
160.000						-.3811								-.2380	
170.000						-.3699								-.2408	
180.000						-.3483	-.2651	-.2379	-.2353	-.2320	-.2264	-.2366	-.2415	-.2428	-.2351

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1303	-.1048	-.0802	-.0765	-.0713	-.0752	-.0639	-.0522	-.0378	-.0158	.0035	-.0275	-.0688	-.0930	-.0936
100.000	-.1380	-.1066	-.0923	-.0847	-.0803	-.0897	-.0850	-.0741	-.0536	-.0566	-.0149	-.0370	-.0627	-.0803	-.1031
110.000	.0000	-.1056	-.0943	-.0944	-.0952	-.1031	-.0987	-.0917	-.0812	-.0649	-.0507	-.0571	-.0641	-.0943	-.1074
120.000						-.1271								-.1092	
130.000						-.1397								-.0738	
140.000						-.1489								-.0510	
150.000						-.1476								-.0323	
160.000						-.1646								-.0226	
170.000						-.1785								-.0181	
180.000	-.2363	-.2321	-.2199	-.2155	-.2089	-.1931	-.1762	-.1111	-.1101	-.0927	-.0606	-.0531	-.0327	-.0119	.0903

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0459		
70.000							-.0762	-.0770	.0000
80.000							-.0944	-.1357	-.1565
90.000	-.1075	-.1395	-.1698	-.1738	-.0583	.0000	-.0866	-.1555	-.1688
100.000	-.1255	-.1456	-.1690	-.0285	.0318	-.0158			
110.000	-.1093	-.1221	-.1120	.1185	.1285	.0468			
120.000						.2071			
130.000						.3172			
140.000						.1557			
150.000						.1664			
160.000						.2087			
170.000						.2526			
180.000	-.1093	.1293	.1772	.1973	.2269	.2555			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.399 ALPHA (8) = 6.416

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2539	.2037	.0096												
70.000	.2529	.2165	.0747												
80.000	.2224	.2112	.1396												
90.000			.2287	.0379	-.2168	-.2636	-.2842	-.2924	-.2939	-.3196	-.3062	-.3011	-.2671	-.2381	-.1724
100.000						-.2659	-.2787	-.2965	-.3066	-.3156	-.3222	-.3374	-.3076	-.3093	-.2033
110.000						-.2677	-.2840	-.3084	-.3244	-.3502	-.3565	-.3495	-.3331	-.3332	-.2346
120.000						-.2279								.0000	
130.000						-.3691								-.2756	
140.000						-.4748								-.2630	
150.000						-.4348								-.2612	
160.000						-.4017								-.2566	
170.000						-.3910								-.2617	
180.000						-.3700	-.2908	-.2629	-.2624	-.2600	-.2537	-.2569	-.2604	-.2592	-.2541

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1350	-.1255	-.0983	-.0853	-.0766	-.0794	-.0654	-.0584	-.0474	-.0342	-.0125	-.0482	-.0885	-.1161	-.1133
100.000	-.1537	-.1327	-.1101	-.0937	-.0855	-.1030	-.0935	-.0865	-.0593	-.0708	-.0330	-.0569	-.0813	-.1017	-.1236
110.000	.0000	-.1332	-.1153	-.1112	-.1063	-.1145	-.1125	-.1040	-.0975	-.0865	-.0806	-.0818	-.0882	-.1174	-.1315
120.000						-.1558								-.1251	
130.000						-.1625								-.0753	
140.000						-.1610								-.0405	
150.000						-.1577								-.0116	
160.000						-.1665								-.0013	
170.000						-.1709								.0050	
180.000	-.2553	-.2472	-.2331	-.2247	-.2085	-.1719	-.1425	-.1085	-.0836	-.0629	-.0437	-.0362	-.0155	.0043	.0963

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0822		
70.000							-.1259	-.1050	.0000
80.000							-.1250	-.1671	-.1712
90.000	-.1285	-.1351	-.1988	-.2111	-.1006	.0000	-.1031	-.1859	-.1994
100.000	-.1478	-.1652	-.1988	-.0962	.0106	-.0324			
110.000	-.1305	-.1434	-.1432	.0875	.1067	.0331			
120.000						.2027			
130.000						.3030			
140.000						.1213			
150.000						.1474			
160.000						.1889			
170.000						.2222			
180.000	-.1285	.1304	.1378	.1804	.2134	.2309			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (8) = 1.398 ALPHA (9) = 8.578

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2266	.1712	-.0291												
70.000	.2070	.1833	.0311												
80.000	.1803	.1747	.0728												
90.000			.1381	.0233	-.2290	-.2781	-.2987	-.2995	-.2931	-.3100	-.2829	-.2657	-.2159	-.1901	-.1614
100.000						-.2771	-.2889	-.3005	-.3056	-.3128	-.3095	-.3156	-.2700	-.2746	-.1847
110.000						-.2759	-.2955	-.3163	-.3265	-.3522	-.3517	-.3410	-.3211	-.3198	-.2365
120.000						-.2428								.0000	
130.000						-.3820								-.2903	
140.000						-.4979								-.2811	
150.000						-.4638								-.2765	
160.000						-.4246								-.2759	
170.000						-.4156								-.2762	
180.000						-.3901	-.3127	-.2886	-.2878	-.2827	-.2749	-.2798	-.2784	-.2808	-.2710

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1260	-.1146	-.0978	-.0906	-.0869	-.0964	-.0824	-.0816	-.0752	-.0642	-.0379	-.0802	-.1163	-.1416	-.1360
100.000	-.1631	-.1503	-.1279	-.1041	-.0954	-.1110	-.1061	-.1086	-.0909	-.1039	-.0647	-.0892	-.1092	-.1323	-.1437
110.000	.0000	-.1582	-.1338	-.1211	-.1180	-.1379	-.1327	-.1307	-.1317	-.1252	-.1199	-.1159	-.1164	-.1513	-.1532
120.000						-.1874								-.1413	
130.000						-.1885								-.0864	
140.000						-.1721								-.0470	
150.000						-.1514								-.0289	
160.000						-.1419								-.0162	
170.000						-.1265								-.0094	
180.000	-.2696	-.2614	-.2391	-.2171	-.1733	-.1120	-.0859	-.0963	-.0565	-.0483	-.0344	-.0301	-.0197	-.0084	.0846

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1173		
70.000							-.1591	-.1305	.0000
80.000							-.1463	-.1883	-.1827
90.000	-.1496	-.1553	-.2173	-.2366	-.1368	.0000	-.1192	-.2005	-.2221
100.000	-.1653	-.1820	-.2186	-.1328	-.0274	-.0554			
110.000	-.1526	-.1711	-.1546	.0544	.0690	.0171			
120.000						.2034			
130.000						.2837			
140.000						.0995			
150.000						.1729			
160.000						.2018			
170.000						.1553			
180.000	-.1478	.1174	.1641	.1959	.2298	.2683			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.500 ALPHA (1) = -8.628

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4534	.4300	.2346												
70.000	.5057	.4660	.3176												
80.000	.5134	.4557	.3574												
90.000			.3585	.0943	-.1112	-.1577	-.1660	-.1806	-.1632	-.1458	-.1275	-.1019	-.0596	-.0435	-.0310
100.000						-.1577	-.1788	-.1811	-.1975	-.1738	-.1206	-.1100	-.0615	-.0625	-.0317
110.000						-.2277	-.2135	-.2112	-.2034	-.1908	-.1447	-.0860	-.0552	-.0584	-.0288
120.000						-.1032								.0000	
130.000						-.1779								-.0443	
140.000						-.1956								-.0443	
150.000						-.1507								-.0335	
160.000						-.1374								-.0330	
170.000						-.1241								-.0331	
180.000						-.0854	-.0336	-.0087	-.0055	-.0056	.0020	-.0082	-.0160	-.0284	-.0291

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0097	.0185	.0465	.0484	.0546	.0432	.0518	.0535	.0641	.0837	.1046	.0961	.0722	.0585	.0578
100.000	-.0090	-.0027	.0224	.0356	.0445	.0346	.0336	.0353	.0503	.0508	.0836	.0851	.0725	.0686	.0457
110.000	.0000	-.0041	.0131	.0242	.0338	.0294	.0302	.0333	.0359	.0457	.0560	.0692	.0741	.0650	.0454
120.000						.0245								.0426	
130.000						-.0005								.0315	
140.000						-.0076								.0232	
150.000						.0106								.0177	
160.000						.0000								.0155	
170.000						-.0036								.0046	
180.000	-.0378	-.0351	-.0246	-.0190	-.0156	-.0127	-.0231	-.0046	-.0249	-.0236	-.0046	-.0023	.0089	.0110	.1904

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1839		
70.000							.1550	.1184	.0000
80.000							.1243	.0712	.0543
90.000	.0620	.0251	.0743	.1233	.1375	.0000	.0303	.0394	.0507
100.000	.0398	.0411	.0743	.1940	.1918	.1207			
110.000	.0524	.0577	.1587	.2511	.2255	.1215			
120.000						.2190			
130.000						.4630			
140.000						.4689			
150.000						.4987			
160.000						.5642			
170.000						.5841			
180.000	.0546	.0347	.3282	.4330	.4784	.5864			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.501 ALPHA (2) = -6.424

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4195	.3912	.2091												
70.000	.4650	.4262	.2943												
80.000	.4642	.4124	.3378												
90.000			.3497	.0936	-.1077	-.1670	-.1791	-.1912	-.2060	-.2208	-.1528	-.1243	-.0835	-.0702	-.0595
100.000						-.1650	-.1871	-.1938	-.2107	-.2273	-.2082	-.1386	-.0840	-.0843	-.0522
110.000						-.2262	-.2164	-.2212	-.2175	-.2268	-.2097	-.1754	-.0856	-.0749	-.0451
120.000						-.1113								.0000	
130.000						-.2042								-.0856	
140.000						-.2329								-.0785	
150.000						-.1884								-.0717	
160.000						-.1741								-.0607	
170.000						-.1626								-.0733	
180.000						-.1346	-.0724	-.0509	-.0438	-.0449	-.0391	-.0485	-.0601	-.0670	-.0699

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0221	-.0144	.0101	.0112	.0150	.0071	.0173	.0205	.0364	.0591	.0814	.0734	.0494	.0342	.0367
100.000	-.0350	-.0310	-.01 2	.0035	.0123	-.0012	.0020	.0076	.0257	.0226	.0616	.0620	.0502	.0460	.0233
110.000	.0000	-.0274	-.0138	-.0036	.0003	.0006	.0042	.0093	.0120	.0218	.0337	.0474	.0548	.0429	.0244
120.000						-.0018								.0210	
130.000						-.0255								.0060	
140.000						-.0330								-.0042	
150.000						-.0158								-.0121	
160.000						-.0298								-.0131	
170.000						-.0338								-.0206	
180.000	-.0793	-.0772	-.0676	-.0613	-.0563	-.0483	-.0547	-.0331	-.0556	-.0503	-.0291	-.0257	-.0136	-.0121	.1555

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1302		
70.000							.0987	.0736	.0000
80.000							.0733	.0289	.0073
90.000	.0329	-.0069	.0270	.0814	.0986	.0000	.0534	.0001	-.0027
100.000	.0124	.0078	.0266	.1569	.1592	.0959			
110.000	.0291	.0273	.1149	.2241	.2075	.1063			
120.000						.2203			
130.000						.4377			
140.000						.4162			
150.000						.4343			
160.000						.4957			
170.000						.5303			
180.000	.0303	.0078	.2819	.3844	.4255	.5330			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.500 ALPHA (3) = -4.338 .

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3948	.3423	.1877												
70.000	.4348	.3796	.2688												
80.000	.4254	.3948	.3174												
90.000			.3423	.0874	-.1153	-.1773	-.1905	-.2012	-.2149	-.2372	-.2139	-.1521	-.1037	-.0886	-.0773
100.000						-.1778	-.1964	-.2063	-.2226	-.2374	-.2338	-.2104	-.1138	-.1032	-.0633
110.000						-.2261	-.2214	-.2299	-.2294	-.2476	-.2322	-.2061	-.1569	-.1199	-.0578
120.000						-.1286								.0000	
130.000						-.2277								-.1136	
140.000						-.2666								-.1065	
150.000						-.2227								-.0988	
160.000						-.2084								-.0987	
170.000						-.1994								-.1024	
180.000						-.1825	-.1080	-.0865	-.0784	-.0797	-.0722	-.0808	-.0919	-.0980	-.1013

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0447	-.0374	-.0158	-.0169	-.0096	-.0142	-.0040	.0016	.0141	.0345	.0572	.0471	.0240	.0081	.0107
100.000	-.0481	-.0468	-.0328	-.0215	-.0129	-.0202	-.0180	-.0127	.0038	.0064	.0432	.0438	.0285	.0237	-.0018
110.000	.0000	-.0392	-.0301	-.0267	-.0212	-.0213	-.0170	-.0114	-.0066	.0025	.0172	.0285	.0322	.0223	-.0021
120.000						-.0247								.0018	
130.000						-.0463								-.0119	
140.000						-.0555								-.0218	
150.000						-.0425								-.0325	
160.000						-.0555								-.0339	
170.000						-.0624								-.0396	
180.000	-.1081	-.1071	-.0933	-.0912	-.0873	-.0788	-.0824	-.0540	-.0813	-.0733	-.0489	-.0472	-.0380	-.0347	.1255

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0844		
70.000							.0571	.0387	.0000
80.000							.0368	-.0071	-.0254
90.000	.0070	-.0356	-.0169	.0367	.0700	.0900	.0201	-.0326	-.0395
100.000	-.0144	-.0326	-.0151	.1192	.1287	.0700			
110.000	.0037	-.0108	.0623	.1963	.1836	.0947			
120.000						.2197			
130.000						.4182			
140.000						.3666			
150.000						.3757			
160.000						.4165			
170.000						.4581			
180.000	.0083	-.0041	.2598	.3518	.3905	.4706			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB011)

MACH ($) = 1.501 ALPHA (4) = -2.201

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3642	.3069	.1522												
70.000	.4021	.3284	.2297												
80.000	.3902	.3215	.2901												
90.000			.3248	.0825	-.1309	-.1862	-.2003	-.2075	-.2065	-.2297	-.2223	-.2260	-.1753	-.1357	-.0933
100.000						-.1842	-.2031	-.2157	-.2249	-.2331	-.2305	-.2380	-.1999	-.1874	-.0902
110.000						-.2238	-.2256	-.2365	-.2381	-.2601	-.2415	-.2113	-.1695	-.1925	-.1079
120.000						-.1405								.0000	
130.000						-.2479								-.1349	
140.000						-.2970								-.1349	
150.000						-.2552								-.1270	
160.000						-.2392								-.1284	
170.000						-.2316								-.1312	
180.000						-.2207	-.1439	-.1198	-.1142	-.1136	-.1054	-.1153	-.1224	-.1293	-.1297

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0588	-.0512	-.0302	-.0340	-.0312	-.0396	-.0266	-.0218	-.0065	.0188	.0397	.0283	.0026	-.0139	-.0152
100.000	-.0609	-.0581	-.0448	-.0387	-.0340	-.0434	-.0438	-.0357	-.0126	-.01*	.0278	.0227	.0079	.0021	-.0294
110.000	.0000	-.0482	-.0416	-.0405	-.0380	-.0442	-.0390	-.0345	-.0254	-.0137	.0010	.0090	.0121	-.0010	-.0294
120.000						-.0432								-.0207	
130.000						-.0624								-.0322	
140.000						-.0738								-.0420	
150.000						-.0657								-.0489	
160.000						-.0820								-.0492	
170.000						-.0923								-.0545	
180.000	-.1351	-.1350	-.1181	-.1158	-.1124	-.1080	-.1118	-.0779	-.1014	-.0896	-.0687	-.0628	-.0543	-.0486	.0988

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0505		
70.000							.0297	.0068	.0000
80.000							.0068	-.0373	-.0572
90.000	-.0149	-.0604	-.0546	-.0136	.0351	.0000	-.0027	-.0559	-.0730
100.000	-.0318	-.0523	-.0576	.0777	.1053	.0501			
110.000	-.0210	-.0283	.0095	.1682	.1723	.0853			
120.000						.2226			
130.000						.3941			
140.000						.3171			
150.000						.3179			
160.000						.3444			
170.000						.3711			
180.000	-.0248	.0039	.2408	.3168	.3510	.4106			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.501 ALPHA (5) = .003

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0800	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3273	.2674	.1064												
70.000	.3573	.2695	.1742												
80.000	.3371	.2710	.2452												
90.000			.2972	.0829	-.1273	-.1747	-.1926	-.2029	-.2094	-.2384	-.2359	-.2451	-.2319	-.2264	-.1636
100.000						-.1752	-.1922	-.2094	-.2219	-.2358	-.2429	-.2622	-.2364	-.2405	-.2021
110.000						-.2116	-.2143	-.2268	-.2368	-.2626	-.2618	-.2402	-.2236	-.2304	-.1928
120.000						-.1478								.0000	
130.000						-.2666								-.1589	
140.000						-.3278								-.1542	
150.000						-.2876								-.1473	
160.000						-.2696								-.1453	
170.000						-.2652								-.1526	
180.000						-.2538	-.1783	-.1532	-.1487	-.1459	-.1381	-.1440	-.1497	-.1533	-.1507

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0858	-.0865	-.0828	-.0461	-.0433	-.0503	-.0402	-.0340	-.0201	.0088	.0246	.0120	-.0148	-.0300	-.0267
100.000	-.1134	-.0727	-.0542	-.0467	-.0436	-.0581	-.0581	-.0506	-.0279	-.0265	.0122	.0057	-.0092	-.0151	-.0420
110.000	.0000	-.0834	-.0501	-.0471	-.0485	-.0581	-.0561	-.0500	-.0435	-.0302	-.0150	-.0072	-.0074	-.0198	-.0464
120.000						-.0621								-.0462	
130.000						-.0814								-.0521	
140.000						-.0956								-.0607	
150.000						-.0939								-.0666	
160.000						-.1170								-.0673	
170.000						-.1238								-.0708	
180.000	-.1567	-.1518	-.1398	-.1371	-.1369	-.1340	-.1398	-.1025	-.1253	-.1134	-.0894	-.0828	-.0671	-.0582	.0750

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0182		
70.000							.0022	-.0206	.0000
80.000							-.0170	-.0640	-.0887
90.000	-.0317	-.0772	-.0796	-.0639	.0121	.0000	-.0247	-.0771	-.1069
100.000	-.0477	-.0652	-.0793	.0568	.0853	.0356			
110.000	-.0509	-.0536	-.0430	.1440	.1597	.0795			
120.000						.2218			
130.000						.3651			
140.000						.2626			
150.000						.2619			
160.000						.2891			
170.000						.3264			
180.000	-.0414	.0567	.2281	.2773	.3044	.3538			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.962 ALPHA (6) = 2.171

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2913	.2515	.0979												
70.000	.3117	.2629	.1499												
80.000	.2910	.2539	.2058												
90.000			.1690	.0909	-.1418	-.1780	-.2017	-.2100	-.2160	-.2465	-.2429	-.2531	-.2440	-.2427	-.2455
100.000						-.1777	-.1966	-.2155	-.2263	-.2411	-.2499	-.2745	-.2580	-.2635	-.2385
110.000						-.2054	-.2152	-.2307	-.2432	-.2701	-.2748	-.2661	-.2511	-.2562	-.2223
120.000						-.1534								.0000	
130.000						-.2801								-.1887	
140.000						-.3557								-.1791	
150.000						-.3169								-.1712	
160.000						-.2943								-.1686	
170.000						-.2849								-.1743	
180.000						-.2777	-.2025	-.1738	-.1712	-.1683	-.1626	-.1671	-.1728	-.1755	-.1718

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1521	-.0955	-.0668	-.0585	-.0525	-.0608	-.0504	-.0435	-.0271	.0005	.0187	.0076	-.0166	-.0384	-.0314
100.000	-.2009	-.1148	-.0690	-.0556	-.0533	-.0638	-.0646	-.0577	-.0375	-.0332	.0015	-.0010	-.0174	-.0232	-.0479
110.000	.0003	-.1602	-.0771	-.0587	-.0593	-.0690	-.0673	-.0613	-.0556	-.0412	-.0253	-.0185	-.0166	-.0308	-.0561
120.000						-.0780								-.0669	
130.000						-.1018								-.0736	
140.000						-.1215								-.0732	
150.000						-.1258								-.0744	
160.000						-.1423								-.0709	
170.000						-.1492								-.0699	
180.000	-.1722	-.1652	-.1561	-.1570	-.1552	-.1565	-.1634	-.1368	-.1466	-.1297	-.1006	-.0907	-.0586	-.0618	.0612

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0071		
70.000							-.0340	-.0397	.0000
80.000							-.0462	-.0849	-.1090
90.000	-.0443	-.0556	-.1029	-.1060	-.0162	.0000	-.0350	-.1035	-.1245
100.000	-.0992	-.0785	-.1002	-.0011	.0696	.0298			
110.000	-.0947	-.0641	-.0707	.1297	.1580	.0784			
120.000						.2291			
130.000						.3423			
140.000						.2113			
150.000						.2099			
160.000						.2435			
170.000						.2854			
180.000	-.0602	.1251	.2046	.2333	.2626	.2987			

DATE 26 MAR 74 TABULATED SOURCE DATA - IA29/OA83 (REB011)

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE

MACH (9) = 1.300 ALPHA (7) = 4.250

SECTION (1)OAB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1470	.1260	.1550	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2734	.2456	.0743												
90.000	.2747	.2506	.1242												
80.000	.2432	.2415	.1677												
90.000			.2505	.0956	-.1363	-.1951	-.2140	-.2247	-.2316	-.2573	-.2537	-.2638	-.2566	-.2570	-.2561
100.000						-.1951	-.2059	-.2264	-.2391	-.2521	-.2651	-.2872	-.2765	-.2867	-.2635
110.000						-.1951	-.2153	-.2361	-.2521	-.2817	-.2892	-.2887	-.2812	-.2877	-.2509
120.000						-.1599								.0000	
130.000						-.2903								-.2100	
140.000						-.3813								-.1964	
150.000						-.3440								-.1907	
160.000						-.3170								-.1922	
170.000						-.3097								-.1917	
180.000						-.2974	-.2226	-.1946	-.1914	-.1888	-.1777	-.1878	-.1904	-.1922	-.1902

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1743	-.1158	-.0815	-.0686	-.0608	-.0661	-.0572	-.0498	-.0354	-.0059	.0204	.0081	-.0140	-.0423	-.0394
100.000	-.2184	-.1307	-.0882	-.0671	-.0627	-.0746	-.0756	-.0704	-.0478	-.0480	.0092	-.0031	-.0158	-.0253	-.0580
110.000	.0001	-.1605	-.0874	-.0733	-.0744	-.0856	-.0817	-.0766	-.0721	-.0584	-.0362	-.0275	-.0252	-.0390	-.0738
120.000						-.1008								-.0912	
130.000						-.1173								-.0846	
140.000						-.1312								-.0752	
150.000						-.1383								-.0651	
160.000						-.1565								-.0537	
170.000						-.1667								-.0509	
180.000	-.1939	-.1876	-.1795	-.1775	-.1774	-.1778	-.1794	-.1424	-.1507	-.1291	-.0925	-.0795	-.0556	-.0409	.0681

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0508		
90.000							-.0743	-.0650	.0000
80.000							-.0680	-.1160	-.1339
90.000	-.0541	-.0912	-.1311	-.1431	-.0935	.0000	-.0480	-.1264	-.1509
100.000	-.0740	-.0995	-.1298	-.1197	.0484	.0183			
110.000	-.0630	-.0917	-.1095	.0899	.1493	.0864			
120.000						.2517			
130.000						.3272			
140.000						.1480			
150.000						.1591			
160.000						.2069			
170.000						.2462			
180.000	-.0454	.0823	.1748	.1370	.2229	.2510			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.500 ALPHA (8) = 6.445

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2545	.2106	.0423												
70.000	.2328	.2186	.0891												
80.000	.2111	.2040	.1285												
90.000			.1751	.0901	-.1467	-.2074	-.2284	-.2372	-.2410	-.2684	-.2593	-.2619	-.2445	-.2390	-.2146
100.000						-.2061	-.2156	-.2356	-.2450	-.2619	-.2719	-.2916	-.2713	-.2838	-.2478
110.000						-.2057	-.2219	-.2436	-.2579	-.2906	-.3034	-.3030	-.2951	-.3029	-.2614
120.000						-.1672								.0000	
130.000						-.3008								-.2361	
140.000						-.4053								-.2206	
150.000						-.3688								-.2125	
160.000						-.3371								-.2105	
170.000						-.3309								-.2102	
180.000						-.3156	-.2434	-.2167	-.2140	-.2102	-.2008	-.2058	-.2102	-.2133	-.2092

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1386	-.1189	-.0930	-.0807	-.0714	-.0766	-.0582	-.0490	-.0358	-.0072	.0133	-.0084	-.0338	-.0668	-.0685
100.000	-.1869	-.1328	-.0995	-.0813	-.0724	-.0838	-.0810	-.0737	-.0496	-.0566	-.0084	-.0186	-.0371	-.0488	-.0894
110.000	.0000	-.1395	-.0995	-.0933	-.0865	-.0953	-.0929	-.0864	-.0818	-.0736	-.0503	-.0461	-.0489	-.0671	-.1052
120.000						-.1280								-.1288	
130.000						-.1283								-.1022	
140.000						-.1366								-.0717	
150.000						-.1371								-.0456	
160.000						-.1553								-.0319	
170.000						-.1640								-.0305	
180.000	-.2101	-.2082	-.1957	-.1928	-.1891	-.1817	-.1752	-.1338	-.1242	-.0965	-.0668	-.0539	-.0367	-.0197	.0767

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0924		
70.000							-.1175	-.0977	.0000
80.000							-.0979	-.1433	-.1608
90.000	-.0811	-.0980	-.1569	-.1791	-.1425	.0000	-.0735	-.1494	-.1767
100.000	-.0985	-.1251	-.1564	-.1634	.0161	-.0103			
110.000	-.0969	-.1245	-.1445	.0528	.1105	.0566			
120.000						.2444			
130.000						.3204			
140.000						.1248			
150.000						.1504			
160.000						.1997			
170.000						.2312			
180.000	-.0955	.0584	.1653	.1904	.2188	.2479			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB011)

MACH (9) = 1.500 ALPHA (9) = 8.533

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2431	.1883	.0123												
70.000	.2097	.1922	.0593												
80.000	.1853	.1848	.0956												
90.000			.1300	.0660	-.1500	-.2201	-.2405	-.2465	-.2473	-.2684	-.2525	-.2437	-.2152	-.2013	-.1746
100.000						-.2164	-.2288	-.2440	-.2522	-.2634	-.2697	-.2803	-.2533	-.2619	-.2054
110.000						-.2138	-.2318	-.2512	-.2655	-.2925	-.3040	-.3011	-.2896	-.2927	-.2473
120.000						-.1767								.0000	
130.000						-.3123								-.2587	
140.000						-.4301								-.2429	
150.000						-.3953								-.2335	
160.000						-.3562								-.2290	
170.000						-.3488								-.2305	
180.000						-.3270	-.2538	-.2281	-.2283	-.2263	-.2203	-.2276	-.2305	-.2326	-.2290

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1299	-.1192	-.1008	-.0923	-.0776	-.0741	-.0554	-.0495	-.0469	-.0287	-.0056	-.0327	-.0569	-.0895	-.0904
100.000	-.1687	-.1508	-.1305	-.1046	-.0847	-.0880	-.0802	-.0766	-.0563	-.0680	-.0313	-.0421	-.0643	-.0763	-.1178
110.000	.0000	-.1642	-.1307	-.1153	-.1040	-.1069	-.0969	-.0904	-.0901	-.0894	-.0800	-.0757	-.0826	-.1007	-.1350
120.000						-.1490								-.1581	
130.000						-.1501								-.1055	
140.000						-.1513								-.0576	
150.000						-.1500								-.0346	
160.000						-.1581								-.0279	
170.000						-.1681								-.0234	
180.000	-.2267	-.2209	-.2086	-.1993	-.1934	-.1780	-.1536	-.0973	-.0850	-.0637	-.0429	-.0358	-.0233	-.0153	.0800

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1345		
70.000							-.1498	-.1248	.0000
80.000							-.1221	-.1651	-.1796
90.000	-.0946	-.1215	-.1819	-.2059	-.1811	.0000	-.0948	-.1656	-.1943
100.000	-.1223	-.1493	-.1812	-.1919	-.0172	-.0350			
110.000	-.1246	-.1528	-.1728	.0323	.0736	.0393			
120.000						.2352			
130.000						.2968			
140.000						.0938			
150.000						.1554			
160.000						.1958			
170.000						.1649			
180.000	-.1292	.0416	.1534	.1846	.2161	.2560			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -2.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = 1.101 ALPHA (1) = .257

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2361	.1964	-.0004												
70.000	.3012	.2399	.0797												
80.000	.3041	.2204	.1112												
90.000			.1149	-.1853	-.4180	-.4418	-.4283	-.3351	-.2936	-.3299	-.3077	-.2691	-.1980	-.1696	-.1458
100.000						-.4418	-.4645	-.4258	-.3416	-.3308	-.3041	-.2806	-.1975	-.2007	-.1355
110.000						-.5189	-.5004	-.4961	-.4404	-.3747	-.3160	-.2460	-.1802	-.1837	-.1335
120.000						-.4216								.0000	
130.000						-.5852								-.1903	
140.000						-.6566								-.2092	
150.000						-.5939								-.2271	
160.000						-.5661								-.2516	
170.000						-.5218								-.2787	
180.000						-.4387	-.3679	-.3363	-.3235	-.3167	-.3084	-.3157	-.3015	-.2900	-.2305

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1016	-.1007	-.0849	-.0867	-.0733	-.0113	.0906	.1438	.1614	.1462	.1248	.0787	.0182	-.0146	-.0421
100.000	-.1185	-.1223	-.1061	-.0989	-.0826	-.0346	.0669	.1246	.1574	.1315	.1250	.0805	.0325	.0148	-.0327
110.000	.0000	-.1128	-.1025	-.1068	-.0952	-.0553	.0446	.1192	.1355	.1295	.1143	.0850	.0564	.0305	-.0187
120.000						-.0522								.0616	
130.000						-.0555								.0926	
140.000						-.0463								.1169	
150.000						-.0280								.1286	
160.000						-.0302								.1388	
170.000						-.0277								.1402	
180.000	-.1897	-.1381	-.0914	-.0675	-.0504	-.0247	.0021	.0721	.1156	.1304	.1368	.1299	.1322	.1503	.2583

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0593		
70.000							.0099	-.0756	.0000
80.000							-.0106	-.1327	-.1327
90.000	-.0958	-.0827	.0019	.0695	.1270	.0000	-.0193	-.1552	-.1252
100.000	-.0873	.0071	.0611	.1387	.1043	.0195			
110.000	.0005	.0797	.1793	.2127	.1336	-.0053			
120.000						.0440			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012)

MACH (1) = 1.151 ALPHA (1) = .257

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.2533			
140.000						.2426			
150.000						.2880			
160.000						.3147			
170.000						.3765			
180.000	.0029	.3085	.3597	.3934	.4174	.3878			

MACH (1) = 1.103 ALPHA (2) = 2.407

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1969	.1562	-.0138												
70.000	.2543	.2042	.0559												
80.000	.2558	.2042	.0938												
90.000			.1019	-.1866	-.4223	-.4349	-.3495	-.2610	-.2531	-.3055	-.3054	-.3009	-.2324	-.2105	-.1906
100.000						-.4298	-.4428	-.3338	-.2881	-.3063	-.3147	-.3275	-.2385	-.2514	-.1714
110.000						-.5127	-.4856	-.4602	-.3697	-.3670	-.3408	-.2816	-.2267	-.2288	-.1683
120.000						-.4394								.0000	
130.000						-.6072								-.2087	
140.000						-.7007								-.2207	
150.000						-.6374								-.2335	
160.000						-.6113								-.2513	
170.000						-.5709								-.2717	
180.000						-.4906	-.4091	-.3756	-.3666	-.3619	-.3497	-.3353	-.2985	-.2735	-.1951

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1401	-.1273	-.1045	-.1072	-.0932	-.0013	.1081	.1409	.1564	.1326	.1149	.0594	-.0128	-.0477	-.0752
100.000	-.1539	-.1487	-.1225	-.1194	-.1007	-.0195	.0691	.1271	.1512	.1157	.1178	.0647	.0075	-.0133	-.0725
110.000	.0000	-.1442	-.1300	-.1298	-.1160	-.0053	.0683	.1154	.1308	.1250	.1079	.0669	.0240	-.0044	-.0572
120.000						-.0184								.0282	
130.000						-.0549								.0645	
140.000						-.0411								.0900	
150.000						-.0119								.1070	
160.000						-.0122								.1220	
170.000						-.0006								.1251	
180.000	-.1497	-.1162	-.0835	-.0702	-.0430	.0039	.0405	.1029	.1237	.1297	.1375	.1287	.1276	.1290	.2324

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012)

MACH (1) = 1.103 ALPHA (2) = 2.407

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0286		
70.000							-.0247	-.1037	.0000
80.000							-.0467	-.1667	-.1764
90.000	-.1351	-.1175	-.0797	.0035	.0859	.0000	-.0514	-.1914	-.1764
100.000	-.1272	-.0557	.0061	.0952	.0640	-.0022			
110.000	-.0486	.0207	.1414	.1905	.1197	-.0264			
120.000						.0463			
130.000						.2408			
140.000						.1971			
150.000						.2440			
160.000						.2722			
170.000						.3350			
180.000	-.0501	.2739	.3231	.3509	.3768	.3512			

MACH (1) = 1.104 ALPHA (3) = 4.394

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1605	.1276	-.0354												
70.000	.2156	.1771	.0376												
80.000	.2072	.1677	.0838												
90.000			.1056	-.1806	-.4162	-.4290	-.2779	-.2232	-.2315	-.2893	-.2888	-.2870	-.2409	-.2283	-.2179
100.000						-.4326	-.4168	-.2788	-.2587	-.2927	-.3073	-.3300	-.2594	-.2824	-.1903
110.000						-.5021	-.4854	-.3928	-.3325	-.3617	-.3628	-.3055	-.2599	-.2619	-.1871
120.000						-.4430								.0000	
130.000						-.6194								-.2206	
140.000						-.7297								-.2208	
150.000						-.6664								-.2274	
160.000						-.6405								-.2411	
170.000						-.6041								-.2441	
180.000						-.5290	-.4440	-.4130	-.4011	-.3932	-.3768	-.3400	-.2685	-.2285	- 1433

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1535	-.1536	-.1328	-.1265	-.1145	-.0380	.0875	.1396	.1464	.1198	.0987	.0381	-.0369	-.0784	-.1028
100.000	-.1650	-.1703	-.1521	-.1489	-.1207	-.0689	.0676	.1198	.1415	.1000	.0994	.0385	-.0182	-.0482	-.1059
110.000	.0000	-.1667	-.1557	-.1593	-.1426	-.0746	.0473	.1054	.1217	.1132	.0851	.0392	.0001	-.0424	-.0893
120.000						-.0658								-.0006	
130.000						-.0408								.0432	
140.000						-.0340								.0694	
150.000						-.0022								.0869	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012)

MACH (1) = 1.104 ALPHA (3) = 4.394

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						.0036								.1029	
170.000						.0092								.1148	
180.000	-.1202	-.0972	-.0701	-.0613	-.0373	.0184	.0537	.1095	.1282	.1347	.1347	.1235	.1150	.1182	.2121

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0040		
70.000							-.0524	-.1291	.0000
80.000							-.0730	-.1960	-.2050
90.000	-.1639	-.1454	-.1350	-.0457	.0497	.0000	-.0782	-.2184	-.2100
100.000	-.1553	-.1027	-.0426	.0596	.0357	-.0389			
110.000	-.0986	-.0282	.1038	.1698	.1005	-.0555			
120.000						.0427			
130.000						.2241			
140.000						.1602			
150.000						.2241			
160.000						.2424			
170.000						.2936			
180.000	-.0973	.2449	.2945	.3312	.3563	.3415			

MACH (1) = 1.097 ALPHA (4) = 6.561

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0907	.0795	-.0551												
70.000	.1366	.1308	.0221												
80.000	.1152	.1170	.0673												
90.000			.0913	-.1899	-.4201	-.4092	-.2412	-.2285	-.2244	-.2573	-.2496	-.2595	-.2454	-.2483	-.2728
100.000						-.4204	-.3106	-.2745	-.2592	-.2702	-.2740	-.3135	-.2885	-.3276	-.2524
110.000						-.5046	-.4507	-.3397	-.3280	-.3571	-.3542	-.3417	-.3074	-.3260	-.2484
120.000						-.4715								.0000	
130.000						-.6582								-.2519	
140.000						-.7889								-.2436	
150.000						-.7288								-.2378	
160.000						-.6999								-.2364	
170.000						-.6725								-.2281	
180.000						-.6007	-.4924	-.4460	-.4209	-.4095	-.3770	-.3226	-.2396	-.2084	-.1343

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012)

MACH (1) = 1.097 ALPHA (4) = 6.561

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4590	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2172	-.2018	-.1696	-.1581	-.1298	-.0554	.0819	.1357	.1282	.0819	.0729	.0100	-.0556	-.0952	-.1442
100.000	-.2264	-.2167	-.1846	-.1720	-.1417	-.0785	.0585	.1135	.1190	.0565	.0746	.0122	-.0437	-.0648	-.1449
110.000	.0000	-.2070	-.1864	-.1866	-.1594	-.0962	.0619	.0946	.0888	.0687	.0498	.0109	-.0255	-.0621	-.1317
120.000						-.0612								-.0147	
130.000						-.0480								.0393	
140.000						-.0164								.0618	
150.000						-.0056								.0709	
160.000						.0025								.0951	
170.000						.0183								.1033	
180.000	-.0998	-.0823	-.0518	-.0392	-.0127	.0227	.0705	.1083	.1193	.1164	.1189	.1133	.1093	.1082	.2061

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0066		
70.000							-.0655	-.1426	.0000
80.000							-.0864	-.2067	-.2341
90.000	-.2022	-.1801	-.1868	-.1197	-.0020	.0000	-.0946	-.2264	-.2470
100.000	-.1988	-.1501	-.1002	-.0011	-.0115	-.0928			
110.000	-.1381	-.0658	.0540	.1110	.0800	-.0827			
120.000						.0449			
130.000						.2099			
140.000						.1319			
150.000						.2120			
160.000						.2468			
170.000						.2509			
180.000	-.1409	.2047	.2574	.3004	.3562	.3786			

MACH (1) = 1.088 ALPHA (5) = 8.706

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0421	.0363	-.0590												
70.000	.0787	.0985	.0201												
80.000	.0378	.0929	.0701												
90.000			.1031	-.1742	-.4082	-.2956	-.2513	-.2346	-.2175	-.2499	-.2393	-.2526	-.2379	-.2417	-.2921
100.000						-.3468	-.2980	-.2931	-.2644	-.2600	-.2638	-.3146	-.2926	-.3486	-.2971
110.000						-.4878	-.3598	-.3560	-.3447	-.3547	-.3545	-.3533	-.3518	-.3846	-.3210
120.000						-.4731								.0000	
130.000						-.6730								-.2712	
140.000						-.8273								-.2401	
150.000						-.7706								-.2193	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB012)

MACH (1) = 1.088 ALPHA (5) = 8.706

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.7408								-.2071	
170.000						-.7175								-.1945	
160.000						-.6434	-.5303	-.4925	-.4665	-.4403	-.3834	-.2950	-.2117	-.1756	-.1034

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2604	-.2536	-.2113	-.1958	-.1595	-.0532	.0775	.1348	.1244	.0692	.0433	-.0177	-.0911	-.1306	-.1837
100.000	-.2684	-.2650	-.2220	-.2068	-.1697	-.0749	.0496	.1066	.1135	.0369	.0415	-.0203	-.0821	-.1012	-.1926
110.000	.0000	-.2478	-.2238	-.2209	-.1780	-.0869	.0328	.0900	.0763	.0445	.0154	-.0341	-.0664	-.1057	-.1790
120.000						-.0218								-.0465	
130.000						-.0505								.0052	
140.000						-.0462								.0086	
150.000						-.0155								.0203	
160.000						-.0013								.0590	
170.000						.0120								.0676	
180.000	-.0842	-.0590	-.0452	-.0266	.0148	.0215	.0500	.1004	.1155	.1040	.1059	.0878	.0816	.0811	.2218

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0453		
70.000							-.1044	-.1659	.0000
80.000							-.1290	-.2318	-.2598
90.000	-.2401	-.2165	-.2251	-.1545	-.0284	.0000	-.1433	-.2549	-.2704
100.000	-.2336	-.2022	-.1262	-.0309	-.0574	-.1397			
110.000	-.1604	-.1140	.0400	.0804	.0359	-.1138			
120.000						.0358			
130.000						.1781			
140.000						.0920			
150.000						.1515			
160.000						.2474			
170.000						.2125			
180.000	-.1604	.1725	.2504	.3000	.3720	.4001			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB013) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.500

MACH (1) = 1.749 ALPHA (1) = -8.463

SECTION (1)ORE. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2821	.3544	.1889												
70.000	.2790	.3381	.2883												
60.000	.3182	.3337	.3340												
90.000			.3291	.1037	-.0294	-.1385	-.1472	-.1418	-.1637	-.1988	-.1936	-.1769	-.1479	-.1323	-.0910
100.000						-.1390	-.1498	-.1614	-.1728	-.1844	-.1787	-.1710	-.1484	-.1490	-.1241
110.000						-.1851	-.2112	-.2243	-.2156	-.1875	-.1617	-.1449	-.1474	-.1500	-.1479
120.000						-.1070								.0000	
130.000						-.1199								-.0769	
140.000						-.1140								-.0610	
150.000						-.0988								-.0371	
160.000						-.0887								-.0138	
170.000						-.0856								.0018	
180.000						-.0567	-.0057	.0175	.0245	.0279	.0317	.0247	.0191	.0106	.0034

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0400	-.0176	.0062	.0132	.0209	.0230	.0325	.0369	.0431	.0552	.0767	.0772	.0653	.0589	.0740
100.000	-.0918	-.0915	-.0281	-.0066	.0047	.0101	.0237	.0214	.0328	.0266	.0519	.047	.0439	.0439	.0299
110.000	.0000	-.1238	-.1043	-.0912	-.0817	-.0830	-.0751	-.0657	-.0519	-.0364	-.0200	-.0070	.0037	.0147	.0128
120.000						-.1087								.0058	
130.000						-.0806								-.0198	
140.000						-.0472								-.0347	
150.000						-.0169								-.0360	
160.000						-.0064								-.0250	
170.000						.0103								-.0140	
180.000	.0024	-.0009	.0070	.0014	.0093	.0150	.0093	-.0268	.0069	.0043	.0124	.0071	.0066	.0032	.0200

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1260		
70.000							.0963	.0808	.0000
60.000							.0800	.0309	.0031
90.000	.0274	.0031	.0066	.0360	.2336	.0000	.0656	-.0150	-.0326
100.000	.0217	.0048	.0116	.0809	.0983	.1159			
110.000	.0222	.0021	.0408	.1379	.1452	.0828			
120.000						.0284			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.749 ALPHA (1) = -8.463

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.2695			
140.000						.4838			
150.000						.5184			
160.000						.4240			
170.000						.3479			
180.000	.0061	.0038	.0368	.3218	.3955	.5457			

MACH (1) = 1.750 ALPHA (2) = -6.336

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2982	.3256	.1542												
70.000	.2579	.3080	.2452												
80.000	.2910	.2943	.3049												
90.000			.3168	.1056	-.0500	-.1420	-.1549	-.1546	-.1740	-.2093	-.2070	-.1977	-.1707	-.1581	-.1232
100.000						-.1430	-.1590	-.1696	-.1827	-.1987	-.1980	-.1913	-.1653	-.1587	-.1425
110.000						-.1807	-.2108	-.2251	-.2199	-.1987	-.1776	-.1599	-.1545	-.1584	-.1556
120.000						-.1177								.0000	
130.000						-.1389								-.0919	
140.000						-.1389								-.0821	
150.000						-.1216								-.0585	
160.000						-.1136								-.0387	
170.000						-.1123								-.0256	
180.000						-.0862	-.0412	-.0154	-.0092	-.0041	.0008	-.0042	-.0099	-.0150	-.0207

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0767	-.0497	-.0238	-.0171	-.0091	-.0083	-.0004	.0054	.0153	.0262	.0430	.0463	.0401	.0326	.0462
100.000	-.1229	-.0905	-.0553	-.0348	-.0230	-.0184	-.0082	-.0056	.0083	.0064	.0246	.0241	.0249	.0254	.0130
110.000	.0000	-.1432	-.1206	-.0980	-.0802	-.0826	-.0765	-.0694	-.0616	-.0555	-.0445	-.0356	-.0220	-.0155	-.0045
120.000						-.1306								-.0220	
130.000						-.1066								-.0424	
140.000						-.0775								-.0565	
150.000						-.0487								-.0602	
160.000						-.0370								-.0513	
170.000						-.0255								-.0303	
180.000	-.0291	-.0322	-.0261	-.0297	-.0263	-.0231	-.0213	-.0456	-.0163	-.0166	-.0129	-.0184	-.0186	-.0246	.0050

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE0013)

MACH (1) = 1.750 ALPHA (2) = -8.336

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0818		
70.000							.0631	.0478	.0000
80.000							.0503	.0057	-.0200
90.000	.0340	-.0145	-.0082	.0150	.1976	.0000	.0473	-.0332	-.0570
100.000	.0037	-.0140	-.0050	.0610	.0786	.0862			
110.000	.0085	-.0145	.0246	.1183	.1234	.0806			
120.000						.0264			
130.000						.2570			
140.000						.4460			
150.000						.4568			
160.000						.3667			
170.000						.3040			
180.000	-.0142	-.0155	.0080	.2744	.3399	.4925			

MACH (1) = 1.750 ALPHA (3) = -4.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2432	.2826	.1235												
70.000	.2378	.2687	.1998												
80.000	.2629	.2797	.2642												
90.000			.2950	.1007	-.0660	-.1494	-.1633	-.1666	-.1865	-.2204	-.2191	-.2142	-.1937	-.1816	-.1549
100.000						-.1484	-.1689	-.1795	-.1938	-.2116	-.2157	-.2121	-.1862	-.1819	-.1621
110.000						-.1949	-.2106	-.2263	-.2232	-.2111	-.1971	-.1768	-.1701	-.1724	-.1665
120.000						-.1303								.0000	
130.000						-.1598								[illegible]	
140.000						-.1644								[illegible]	
150.000						-.1468								[illegible]	
160.000						-.1383								[illegible]	
170.000						-.1370								-.0537	
180.000						-.1148	-.0741	-.0508	-.0423	-.0327	-.0293	-.0339	[illegible]	[illegible]	-.3499

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	[illegible]	.7100
PHI															
90.000	-.1120	-.0805	-.0533	-.0476	-.0386	-.0348	-.0256	-.0201	-.0097	.0052	.0195	.0232	.0182	.0126	.0313
100.000	-.1469	-.1204	-.0828	-.0612	-.0494	-.0414	-.0377	-.0285	-.0147	-.0154	.0066	.0068	.0046	.0107	-.0032
110.000	.0000	-.1394	-.1417	-.1170	-.0949	-.0857	-.0785	-.0722	-.0688	-.0620	-.0589	-.0521	-.0411	-.0358	-.0229
120.000						-.1448								-.0424	
130.000						-.1253								-.0602	
140.000						-.0963								-.0764	
150.000						-.0701								-.0819	

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.750 ALPHA (3) = -4.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4590	.4640	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0631								-.0751	
170.000						-.0521								-.0651	
160.000	-.0971	-.0976	-.0938	-.0551	-.0512	-.0458	-.0445	-.0585	-.0442	-.0434	-.0384	-.0439	-.0466	-.0513	-.0224

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0469		
70.000							.0363	.0184	.0000
60.000							.0240	-.0153	-.0404
50.000	-.0826	-.0353	-.0333	-.0104	.1588	.0005	.0282	-.0463	-.0753
100.000	-.0804	-.0341	-.0328	.0432	.0628	.0711			
110.000	-.0087	-.0286	.0036	.0909	.1048	.0459			
120.000						.0312			
130.000						.2482			
140.000						.4088			
150.000						.4009			
160.000						.3120			
170.000						.2605			
180.000	-.0316	-.0308	-.0042	.2323	.2984	.4221			

MACH (1) = 1.751 ALPHA (4) = -2.051

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2408	.2802	.0959												
70.000	.2255	.2681	.1327												
60.000	.2356	.2648	.2191												
50.000			.2625	.0941	-.0084	-.1576	-.1703	-.1762	-.1945	-.2206	-.2281	-.2276	-.2145	-.2053	-.1857
100.000						-.1563	-.1759	-.1873	-.2023	-.2209	-.2291	-.2286	-.2068	-.2048	-.1842
110.000						-.1739	-.2104	-.2266	-.2260	-.2214	-.2126	-.1988	-.1873	-.1873	-.1816
120.000						-.1427								.0000	
130.000						-.1775								-.1225	
140.000						-.1663								-.1236	
150.000						-.1706								-.1051	
160.000						-.1628								-.0884	
170.000						-.1623								-.0778	
180.000						-.1398	-.1021	-.0780	-.0685	-.0620	-.0579	-.0609	-.0639	-.0699	-.0729

X/L	.4590	.4640	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 68-030 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.791 ALPHA (4) = -2.051

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1469	-.1117	-.0754	-.0711	-.0619	-.0573	-.0512	-.0436	-.0321	-.0127	.0032	.0095	.0025	-.0041	.0195
100.000	-.1468	-.1521	-.1127	-.0832	-.0704	-.0632	-.0559	-.0507	-.0350	-.0313	-.0093	-.0067	-.0035	-.0030	-.0151
110.000	.0000	-.1724	-.1476	-.1546	-.1102	-.0943	-.0860	-.0768	-.0734	-.0690	-.0624	-.0580	-.0472	-.0438	-.0340
120.000						-.1564								-.0538	
130.000						-.1381								-.0739	
140.000						-.1145								-.0907	
150.000						-.0910								-.0985	
160.000						-.0821								-.0951	
170.000						-.0737								-.0873	
180.000	-.0788	-.0817	-.0745	-.0750	-.0719	-.0674	-.0669	-.0703	-.0685	-.0679	-.0635	-.0671	-.0674	-.0737	-.0445

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0204		
70.000							.0113	-.0063	.0000
80.000							.0012	-.0355	-.0800
90.000	-.0417	-.0579	-.0512	-.0300	.1316	.0000	.0098	-.0578	-.0898
100.000	-.0383	-.0527	-.0477	.0209	.0507	.0549			
110.000	-.0275	-.0425	-.0126	.0913	.0987	.0374			
120.000						.0396			
130.000						.2442			
140.000						.3744			
150.000						.3485			
160.000						.2811			
170.000						.2223			
180.000	-.0389	-.0429	.0113	.1964	.2484	.3574			

MACH (1) = 1.791 ALPHA (5) = .025

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2260	.2285	.1713												
70.000	.2188	.2382	.1301												
80.000	.2133	.2431	.1738												
90.000			.2226	.0796	-.0935	-.1659	-.1792	-.1872	-.2035	-.2345	-.2365	-.2376	-.2283	-.2201	-.1988
100.000						-.1661	-.1851	-.1977	-.2128	-.2303	-.2402	-.2435	-.2229	-.2206	-.1942
110.000						-.1847	-.2133	-.2285	-.2303	-.2340	-.2309	-.2170	-.2042	-.2019	-.1911
120.000						-.1550								.0000	
130.000						-.1940								-.1382	
140.000						-.2060								-.1384	
150.000						-.1920								-.1256	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.751 ALPHA (5) = .025

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1845								-.1107	
170.000						-.1845								-.1019	
180.000						-.1661	-.1311	-.1070	-.0980	-.0897	-.0848	-.0883	-.0922	-.0955	-.0958

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1752	-.1565	-.1174	-.0969	-.0825	-.0753	-.0669	-.0577	-.0449	-.0266	-.0080	-.0023	-.0080	-.0151	.0074
100.000	-.1793	-.1698	-.1500	-.1218	-.0943	-.0804	-.0716	-.0648	-.0493	-.0410	-.0206	-.0143	-.0122	-.0117	-.0246
110.000	.0000	-.1706	-.1696	-.1544	-.1321	-.1048	-.0935	-.0815	-.0752	-.0692	-.0504	-.0559	-.0468	-.0420	-.0380
120.000						-.1606								-.0622	
130.000						-.1474								-.0837	
140.000						-.1270								-.1056	
150.000						-.1050								-.1185	
160.000						-.0941								-.1156	
170.000						-.0839								-.1096	
180.000	-.0989	-.0966	-.0909	-.0868	-.0814	-.0810	-.0854	-.0839	-.0935	-.0964	-.0915	-.0975	-.0936	-.0960	-.0620

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0016		
70.000							-.0078	-.0266	.0000
80.000							-.0167	-.0519	-.0712
90.000	-.0566	-.0670	-.0630	-.0419	.1090	.0000	-.0060	-.0682	-.0987
100.000	-.0523	-.0595	-.0588	.0138	.0367	.0438			
110.000	-.0372	-.0533	-.0167	.0834	.0943	.0362			
120.000						.0431			
130.000						.2484			
140.000						.3464			
150.000						.2972			
160.000						.2186			
170.000						.1943			
180.000	-.0422	-.0494	.0357	.1683	.2122	.3060			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.751 ALPHA (6) = 2.120

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2142	.2015	.0535												
70.000	.2212	.2145	.1040												
80.000	.2155	.2269	.1386												
90.000			.1842	.0662	-.1001	-.1729	-.1874	-.1959	-.2075	-.2318	-.2315	-.2364	-.2307	-.2264	-.2156
100.000						-.1722	-.1899	-.2034	-.2189	-.2339	-.2401	-.2460	-.2305	-.2253	-.2027
110.000						-.2032	-.2153	-.2290	-.2323	-.2421	-.2427	-.2277	-.2099	-.2063	-.1901
120.000						-.1639								.0000	
130.000						-.2094								-.1526	
140.000						-.2285								-.1518	
150.000						-.2120								-.1431	
160.000						-.2039								-.1308	
170.000						-.2042								-.1210	
180.000						-.1874	-.1535	-.1318	-.1220	-.1148	-.1093	-.1110	-.1125	-.1159	-.1105

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1971	-.1888	-.1703	-.1449	-.1110	-.0925	-.0792	-.0656	-.0530	-.0337	-.0166	-.0145	-.0203	-.0255	-.0033
100.000	-.1909	-.1886	-.1803	-.1644	-.1367	-.1009	-.0850	-.0724	-.0580	-.0494	-.0321	-.0224	-.0208	-.0219	-.0321
110.000	.0000	-.1808	-.1757	-.1726	-.1641	-.1379	-.1137	-.0899	-.0771	-.0698	-.0609	-.0533	-.0428	-.0384	-.0374
120.000						-.1582								-.0690	
130.000						-.1475								-.0917	
140.000						-.1329								-.1205	
150.000						-.1172								-.1354	
160.000						-.1090								-.1302	
170.000						-.1035								-.1244	
180.000	-.1128	-.1102	-.1004	-.1020	-.0999	-.1022	-.1062	-.0986	-.1158	-.1182	-.1161	-.1184	-.1145	-.1142	-.0756

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0190		
70.000							-.0279	-.0477	.0000
80.000							-.0311	-.0698	-.0886
90.000	-.0657	-.0746	-.0682	-.0458	.0947	.0000	-.0202	-.0782	-.1085
100.000	-.0824	-.0669	-.0632	.0024	.0256	.0342			
110.000	-.0478	-.0575	-.0018	.0819	.0955	.0354			
120.000						.0578			
130.000						.2548			
140.000						.3149			
150.000						.2548			
160.000						.1841			
170.000						.1716			
180.000	-.0461	-.0448	.0649	.1468	.1713	.2457			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.751 ALPHA (7) = 4.271

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1934	.1771	.0312												
70.000	.2024	.1923	.0809												
80.000	.2027	.2008	.1145												
90.000			.1512	.0532	-.0886	-.1749	-.1870	-.1979	-.2100	-.2338	-.2356	-.2397	-.2373	-.2352	-.2314
100.000						-.1746	-.1899	-.2028	-.2175	-.2345	-.2451	-.2529	-.2450	-.2370	-.2144
110.000						-.1744	-.2152	-.2273	-.2283	-.2441	-.2518	-.2458	-.2293	-.2244	-.2016
120.000						-.1692								.0000	
130.000						-.2247								-.1602	
140.000						-.2480								-.1582	
150.000						-.2301								-.1556	
160.000						-.2224								-.1448	
170.000						-.2214								-.1389	
180.000						-.2061	-.1728	-.1516	-.1416	-.1338	-.1289	-.1312	-.1330	-.1302	-.1233

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6930	.7100
PHI															
90.000	-.2121	-.2024	-.1824	-.1587	-.1171	-.0935	-.0812	-.0700	-.0543	-.0376	-.0229	-.0195	-.0263	-.0331	-.0088
100.000	-.1990	-.1944	-.1862	-.1731	-.1443	-.1009	-.0854	-.0744	-.0598	-.0509	-.0337	-.0261	-.0224	-.0253	-.0368
110.000	.0000	-.1831	-.1793	-.1752	-.1677	-.1343	-.1103	-.0867	-.0749	-.0645	-.0535	-.0433	-.0339	-.0313	-.0371
120.000						-.1633								-.0611	
130.000						-.1581								-.0805	
140.000						-.1487								-.1038	
150.000						-.1354								-.1278	
160.000						-.1312								-.1341	
170.000						-.1259								-.1333	
180.000	-.1238	-.1205	-.1166	-.1181	-.1194	-.1249	-.1230	-.1066	-.1354	-.1361	-.1312	-.1307	-.1281	-.1278	-.0869

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0351		
70.000							-.0445	-.0643	.0000
80.000							-.0502	-.0868	-.1049
90.000	-.0750	-.0718	-.0505	-.0502	.0598	.0000	-.0405	-.0916	-.1191
100.000	-.0721	-.0723	-.0676	-.0068	.0145	.0108			
110.000	-.0572	-.0644	-.0319	.0667	.0794	.0142			
120.000						.0846			
130.000						.2617			
140.000						.2910			
150.000						.2175			
160.000						.1692			
170.000						.1439			
180.000	-.0490	-.0507	.0748	.0967	.1200	.1655			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.751 ALPHA (8) = 6.431

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1673	.1523	.0100												
70.000	.1714	.1652	.0568												
80.000	.1722	.1732	.0918												
90.000			.1241	.0398	-.1023	-.1788	-.1937	-.2081	-.2167	-.2384	-.2420	-.2466	-.2453	-.2451	-.2461
100.000						-.1788	-.1934	-.2051	-.2226	-.2394	-.2490	-.2606	-.2569	-.2562	-.2340
110.000						-.1777	-.2123	-.2231	-.2299	-.2515	-.2601	-.2589	-.2476	-.2410	-.2127
120.000						-.1715								.0000	
130.000						-.2361								-.1680	
140.000						-.2645								-.1639	
150.000						-.2477								-.1636	
160.000						-.2405								-.1518	
170.000						-.2387								-.1459	
180.000						-.2263	-.1934	-.1710	-.1606	-.1516	-.1413	-.1433	-.1402	-.1390	-.1356

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2299	-.2101	-.1667	-.1191	-.0953	-.0845	-.0784	-.0651	-.0538	-.0376	-.0213	-.0203	-.0305	-.0381	-.0150
100.000	-.2155	-.2065	-.1890	-.1425	-.1009	-.0852	-.0789	-.0721	-.0585	-.0491	-.0302	-.0245	-.0245	-.0287	-.0435
110.000	.0000	-.1911	-.1862	-.1731	-.1376	-.0935	-.0828	-.0758	-.0674	-.0554	-.0441	-.0323	-.0250	-.0247	-.0390
120.000						-.1695								-.0454	
130.000						-.1736								-.0546	
140.000						-.1668								-.0708	
150.000						-.1572								-.0878	
160.000						-.1535								-.1082	
170.000						-.1475								-.1220	
180.000	-.1389	-.1405	-.1374	-.1376	-.1402	-.1449	-.1475	-.1035	-.1464	-.1441	-.1356	-.1351	-.1320	-.1301	-.0779

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0487		
70.000							-.0707	-.0804	.0000
80.000							-.0615	-.1054	-.1232
90.000	-.0774	-.0551	-.0150	-.0524	.0354	.0000	-.0556	-.1103	-.1361
100.000	-.0742	-.0740	-.0601	.0011	.0162	-.0006			
110.000	-.0638	-.0712	-.0095	.0563	.0548	.0006			
120.000						.0828			
130.000						.2535			
140.000						.2791			
150.000						.1989			
160.000						.1581			
170.000						.1399			
180.000	-.0549	-.0527	.0447	.0644	.0929	.1465			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (1) = 1.751 ALPHA (9) = 8.444

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3150	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1479	.1293	-.0047												
70.000	.1446	.1407	.0364												
80.000	.1459	.1469	.0662												
90.000			.1008	.0126	-.1463	-.1915	-.2046	-.2186	-.2271	-.2483	-.2532	-.2589	-.2582	-.2587	-.2605
100.000						-.1915	-.2028	-.2155	-.2320	-.2486	-.2597	-.2718	-.2700	-.2718	-.2495
110.000						-.2016	-.2142	-.2279	-.2375	-.2604	-.2703	-.2731	-.2698	-.2567	-.2294
120.000						-.1755								.0000	
130.000						-.2471								-.1775	
140.000						-.2809								-.1721	
150.000						-.2603								-.1693	
160.000						-.2541								-.1706	
170.000						-.2535								-.1601	
180.000						-.2404	-.2070	-.1871	-.1716	-.1569	-.1527	-.1529	-.1542	-.1560	-.1554

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2397	-.1875	-.1235	-.1007	-.0881	-.0830	-.0745	-.0656	-.0561	-.0412	-.0221	-.0273	-.0381	-.0477	-.0386
100.000	-.2318	-.2052	-.1431	-.1012	-.0860	-.0804	-.0771	-.0713	-.0609	-.0577	-.0344	-.0307	-.0318	-.0360	-.0540
110.000	.0000	-.2086	-.1857	-.1277	-.0943	-.0837	-.0787	-.0732	-.0682	-.0585	-.0475	-.0362	-.0292	-.0310	-.0468
120.000						-.1333								-.0375	
130.000						-.1823								-.0402	
140.000						-.1852								-.0506	
150.000						-.1755								-.0645	
160.000						-.1703								-.0804	
170.000						-.1655								-.1019	
180.000	-.1605	-.1639	-.1600	-.1628	-.1626	-.1608	-.1614	-.1017	-.1517	-.1493	-.1416	-.1406	-.1304	-.1220	-.0718

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0705		
70.000							-.0921	-.1040	.0000
80.000							-.0787	-.1245	-.1431
90.000	-.0827	-.0616	-.0470	-.0958	.0338	.0000	-.0596	-.1216	-.1575
100.000	-.0847	-.0867	-.0859	-.0203	.0124	.0008			
110.000	-.0711	-.0817	-.0103	.0619	.0690	.0105			
120.000						.0808			
130.000						.2272			
140.000						.2607			
150.000						.2093			
160.000						.1630			
170.000						.1551			
180.000	-.0607	-.0639	.0516	.0754	.1012	.1337			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 2.001 ALPHA (1) = -7.966

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2444	.2416	.2000												
70.000	.2752	.2332	.2411												
80.000	.3065	.2279	.2265												
90.000			.2148	.2128	.0074	-.0488	-.0591	-.0730	-.0959	-.1216	-.1233	-.1205	-.1052	-.0943	-.0793
100.000						-.0491	-.0669	-.0806	-.0948	-.1116	-.1183	-.1166	-.1010	-.0985	-.0799
110.000						-.0965	-.1149	-.1291	-.1280	-.1177	-.1051	-.0935	-.0860	-.0882	-.0816
120.000						-.0507								.0000	
130.000						-.0761								-.0213	
140.000						-.0834								-.0107	
150.000						-.0700								.0085	
160.000						-.0585								.0222	
170.000						-.0521								.0227	
180.000						-.0337	.0040	.0322	.0345	.0362	.0401	.0344	.0356	.0350	.0328

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0591	-.0393	-.0118	-.0007	.0141	.0160	.0200	.0250	.0337	.0437	.0633	.0650	.0594	.0555	.0458
100.000	-.0893	-.0626	-.0476	-.0249	-.0096	.0010	.0040	.0088	.0214	.0200	.0426	.0437	.0451	.0457	.0322
110.000	.0000	-.0796	-.0776	-.0746	-.0676	-.0599	-.0559	-.0517	-.0480	-.0449	-.0364	-.0282	-.0178	-.0113	.0059
120.000						-.0779								-.0144	
130.000						-.0480								-.0483	
140.000						-.0237								-.0432	
150.000						-.0005								-.0251	
160.000						.0107								-.0113	
170.000						.0188								-.0008	
180.000	.0328	.0319	.0364	.0319	.0280	.0225	.0166	.0160	.0135	.0121	.0174	.0105	.0124	.0105	.0380

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9450
PHI									
60.000							.0880		
70.000							.0845	.0691	.0000
80.000							.0898	.0433	.0146
90.000	.0253	.0112	.0088	.0115	.1225	.0000	.0975	.0215	-.0220
100.000	.0338	.0109	.0181	.0364	.0907	.0962			
110.000	-.0149	.0115	.0178	.1042	.1347	.0813			
120.000						.0609			
130.000						.2953			
140.000						.4672			
150.000						.4819			
160.000						.3740			
170.000						.3219			
180.000	-.0141	.0077	.0120	.1600	.3543	.5486			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 1.996 ALPHA (2) = -5.803

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2253	.2192	.1691												
70.000	.2559	.2104	.2242												
80.000	.2859	.2077	.2206												
90.000			.2096	.1909	-.0062	-.0601	-.0747	-.0895	-.1079	-.1308	-.1319	-.1319	-.1227	-.1153	-.1052
100.000						-.0590	-.0818	-.0945	-.1068	-.1233	-.1302	-.1330	-.1183	-.1167	-.1063
110.000						-.0845	-.1214	-.1346	-.1335	-.1291	-.1203	-.1074	-.1011	-.1024	-.1054
120.000						-.0493								.0006	
130.000						-.0942								-.0425	
140.000						-.1112								-.0343	
150.000						-.0988								-.0152	
160.000						-.0887								.0007	
170.000						-.0870								-.0007	
180.000						-.0689	-.0378	-.0109	-.0012	.0034	.0062	.0073	.0062	-.0007	-.0018

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0890	-.0751	-.0521	-.0392	-.0245	-.0179	-.0066	-.0032	.0015	.0070	.0233	.0269	.0247	.0227	.0175
100.000	-.0926	-.0876	-.0770	-.0597	-.0431	-.0310	-.0236	-.0177	-.0085	-.0132	.0037	.0084	.0131	.0161	.0117
110.000	.0000	-.0945	-.0928	-.0874	-.0822	-.0729	-.0670	-.0581	-.0575	-.0564	-.0503	-.0483	-.0378	-.0325	-.0109
120.000						-.0876								-.0428	
130.000						-.0628								-.0670	
140.000						-.0419								-.0617	
150.000						-.0202								-.0467	
160.000						-.0135								-.0358	
170.000						-.0063								-.0261	
180.000	-.0039	-.0012	.0007	.0015	-.0015	-.0024	-.0088	-.0105	-.0166	-.0171	-.0149	-.0166	-.0160	-.0160	.0102

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0416		
70.000							.0448	.0309	.0000
80.000							.0495	.0102	-.0129
90.000	-.0003	-.0161	-.0169	-.0201	.0877	.0000	.0571	-.0016	-.0427
100.000	-.0011	-.0106	-.0169	.0096	.0554	.0573			
110.000	-.0090	-.0122	-.0119	.0680	.0961	.0414			
120.000						.0437			
130.000						.2607			
140.000						.4067			
150.000						.4056			
160.000						.3104			
170.000						.2627			
180.000	-.0230	-.0180	-.0164	.1251	.2884	.4540			

AMES 66-330 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 2.003 ALPHA (3) = -3.722

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1990	.1660	.1425												
70.000	.2256	.1794	.1938												
80.000	.2498	.1816	.1932												
90.000			.1813	.1716	-.0136	-.0642	-.0783	-.0951	-.1139	-.1360	-.1391	-.1427	-.1351	-.1288	-.1184
100.000						-.0645	-.0863	-.0990	-.1134	-.1311	-.1407	-.1466	-.1349	-.1318	-.1115
110.000						-.1110	-.1228	-.1369	-.1374	-.1363	-.1330	-.1244	-.1137	-.1145	-.1065
120.000						-.0498								.0000	
130.000						-.1004								-.0545	
140.000						-.1234								-.0501	
150.000						-.1154								-.0353	
160.000						-.1065								-.0207	
170.000						-.1018								-.0177	
180.000						-.0897	-.0586	-.0365	-.0285	-.0210	-.0163	-.0196	-.0188	-.0174	-.0179

X/L	.4500	.4680	.4860	.5040	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1029	-.0933	-.0779	-.0630	-.0498	-.0424	-.0348	-.0261	-.0194	-.0099	.0036	.0074	.0060	.0038	-.0066
100.000	-.1018	-.1004	-.0922	-.0826	-.0680	-.0564	-.0488	-.0376	-.0278	-.0289	-.0113	-.0076	-.0037	-.0001	-.0090
110.000	.0000	-.1018	-.0993	-.0977	-.0949	-.0886	-.0804	-.0673	-.0611	-.0563	-.0507	-.0488	-.0437	-.0393	-.0265
120.000						-.0982								-.0580	
130.000						-.0779								-.0813	
140.000						-.0589								-.0768	
150.000						-.0407								-.0647	
160.000						-.0337								-.0544	
170.000						-.0281								-.0460	
180.000	-.0207	-.0207	-.0179	-.0212	-.0240	-.0247	-.0272	-.0300	-.0320	-.0334	-.0309	-.0353	-.0370	-.0381	-.0127

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0161		
70.000							.0219	.0045	.0000
80.000							.0285	-.0092	-.0336
90.000	-.0204	-.0361	-.0371	-.0379	.0795	.0000	.0324	-.0185	-.0572
100.000	-.0233	-.0286	-.0355	-.0032	.0413	.0461			
110.000	-.0231	-.0260	-.0253	.0545	.0787	.0279			
120.000						.0458			
130.000						.2532			
140.000						.3750			
150.000						.3626			
160.000						.2679			
170.000						.2308			
180.000	-.0337	-.0329	-.0324	.1211	.2563	.3995			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 2.001 ALPHA (4) = -1.593

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1718	.1597	.1143												
90.000	.1973	.1569	.1363												
80.000	.2136	.1569	.1763												
90.000			.1746	.1444	-.0282	-.0757	-.0898	-.1080	-.1246	-.1470	-.1511	-.1561	-.1507	-.1463	-.1378
100.000						-.0765	-.0967	-.1094	-.1252	-.1423	-.1531	-.1597	-.1521	-.1485	-.1279
110.000						-.0981	-.1274	-.1415	-.1415	-.1476	-.1489	-.1435	-.1353	-.1325	-.1188
120.000						-.0608								.0000	
130.000						-.1067								-.0753	
140.000						-.1362								-.0715	
150.000						-.1310								-.0599	
160.000						-.1255								-.0467	
170.000						-.1224								-.0412	
180.000						-.1127	-.0868	-.0877	-.0808	-.0533	-.0439	-.0473	-.0440	-.0423	-.0396

X/L	.4500	.4680	.4860	.5090	.5340	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1213	-.1174	-.1039	-.0927	-.0811	-.0707	-.0635	-.0546	-.0448	-.0325	-.0207	-.0179	-.0196	-.0213	-.0312
100.000	-.1169	-.1179	-.1113	-.1047	-.0943	-.0828	-.0761	-.0633	-.0521	-.0473	-.0350	-.0297	-.0252	-.0229	-.0304
110.000	.0000	-.1155	-.1141	-.1124	-.1113	-.1067	-.1016	-.0879	-.0761	-.0663	-.0630	-.0585	-.0535	-.0504	-.0410
120.000						-.1108								-.0764	
130.000						-.0935								-.0966	
140.000						-.0764								-.0949	
150.000						-.0633								-.0843	
160.000						-.0588								-.0753	
170.000						-.0532								-.0694	
180.000	-.0432	-.0454	-.0426	-.0465	-.0489	-.0509	-.0537	-.0540	-.0543	-.0549	-.0549	-.0596	-.0585	-.0616	-.0376

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0122		
90.000							-.0061	-.0209	.0000
80.000							.0016	-.0339	-.0540
90.000	-.0429	-.0558	-.0580	-.0574	.0693	.0000	.0066	-.0392	-.0723
100.000	-.0431	-.0497	-.0580	-.0182	.0245	.0250			
110.000	-.0381	-.0479	-.0362	.0406	.0610	.0113			
120.000						.0426			
130.000						.2381			
140.000						.3370			
150.000						.3073			
160.000						.2226			
170.000						.1902			
180.000	-.0439	-.0479	-.0497	.1166	.2139	.3325			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 2.005 ALPHA (5) = .487

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1539	.1378	.0930												
70.000	.1769	.1520	.1426												
80.000	.1883	.1506	.1647												
90.000			.1750	.1185	-.0432	-.0877	-.1007	-.1195	-.1336	-.1549	-.1596	-.1662	-.1632	-.1599	-.1548
100.000						-.0869	-.1046	-.1170	-.1344	-.1530	-.1640	-.1729	-.1659	-.1659	-.1483
110.000						-.1195	-.1311	-.1447	-.1477	-.1579	-.1629	-.1599	-.1519	-.1494	-.1370
120.000						-.0747								.0000	
130.000						-.1168								-.0916	
140.000						-.1502								-.0883	
150.000						-.1472								-.0798	
160.000						-.1450								-.0790	
170.000						-.1422								-.0633	
180.000						-.1336	-.1126	-.0932	-.0847	-.0744	-.0659	-.0650	-.0614	-.0633	-.0625

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1390	-.1337	-.1219	-.1101	-.0939	-.0839	-.0774	-.0721	-.0645	-.0561	-.0395	-.0373	-.0376	-.0387	-.0485
100.000	-.1348	-.1348	-.1285	-.1200	-.1095	-.0955	-.0869	-.0779	-.0681	-.0648	-.0507	-.0468	-.0398	-.0378	-.0453
110.000	.0000	-.1285	-.1263	-.1247	-.1178	-.1181	-.1096	-.0961	-.0855	-.0726	-.0714	-.0670	-.0608	-.0574	-.0519
120.000						-.1216								-.0835	
130.000						-.1082								-.1037	
140.000						-.0939								-.1067	
150.000						-.0805								-.0983	
160.000						-.0749								-.0905	
170.000						-.0712								-.0843	
180.000	-.0852	-.0863	-.0639	-.0661	-.0880	-.0695	-.0737	-.0749	-.0751	-.0726	-.0720	-.0754	-.0751	-.0762	-.0519

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0290		
70.000							-.0263	-.0419	.0000
80.000							-.0210	-.0515	-.0732
90.000	-.0583	-.0681	-.0750	-.0702	.0548	.0000	-.0133	-.0536	-.0830
100.000	-.0577	-.0652	-.0747	-.0355	.0109	.0081			
110.000	-.0508	-.0593	-.0437	.0253	.0473	-.0040			
120.000						.0465			
130.000						.2350			
140.000						.3113			
150.000						.2666			
160.000						.1892			
170.000						.1671			
180.000	-.0504	-.0607	-.0572	.1040	.1763	.2726			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 1.999 ALPHA (6) = 2.717

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1428	.1686	.0733												
90.000	.1584	.1639	.1203												
95.000	.1653	.1653	.1463												
98.000			.1724	.0901	-.0586	-.1006	-.1147	-.1320	-.1427	-.1616	-.1646	-.1698	-.1679	-.1649	-.1630
100.000						-.1019	-.1130	-.1254	-.1427	-.1600	-.1701	-.1800	-.1777	-.1775	-.1603
110.000						-.1022	-.1344	-.1476	-.1528	-.1657	-.1737	-.1739	-.1690	-.1671	-.1527
120.000						-.0869								.0000	
130.000						-.1346								-.1101	
140.000						-.1639								-.1093	
150.000						-.1581								-.1008	
160.000						-.1609								-.1019	
170.000						-.1620								-.0867	
180.000						-.1568	-.1344	-.1166	-.1048	-.0924	-.0839	-.0845	-.0839	-.0869	-.0875

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1518	-.1432	-.1353	-.1315	-.1274	-.1271	-.1224	-.1107	-.0941	-.0752	-.0575	-.0530	-.0514	-.0525	-.0570
100.000	-.1464	-.1375	-.1318	-.1266	-.1228	-.1250	-.1265	-.1207	-.1091	-.0952	-.0703	-.0597	-.0528	-.0483	-.0507
110.000	.0000	-.1323	-.1269	-.1233	-.1233	-.1233	-.1252	-.1243	-.1213	-.1124	-.0959	-.0786	-.0664	-.0614	-.0557
120.000						-.1219								-.1047	
130.000						-.1179								-.1148	
140.000						-.1091								-.1103	
150.000						-.0974								-.1056	
160.000						-.0904								-.1014	
170.000						-.0871								-.1009	
180.000	-.0856	-.0859	-.0824	-.0837	-.0826	-.0871	-.0896	-.0932	-.0918	-.0943	-.0909	-.0950	-.0947	-.0975	-.0741

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0428		
90.000							-.0386	-.0544	.0000
95.000							-.0341	-.0631	-.0838
98.000	-.0725	-.0794	-.0852	-.0760	.0384	.0000	-.0260	-.0618	-.0896
100.000	-.0728	-.0791	-.0859	-.0410	-.0074	-.0073			
110.000	-.0820	-.0717	-.0494	.0149	.0332	-.0197			
120.000						.0487			
130.000						.2308			
140.000						.2775			
150.000						.2237			
160.000						.1576			
170.000						.1438			
180.000	-.0820	-.0857	-.0841	.0801	.1370	.2368			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE3013)

MACH (2) = 1.997 ALPHA (7) = 4.714

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1154	.1500	.0547												
90.000	.1288	.1480	.1000												
80.000	.1365	.1458	.1275												
90.000			.1511	.0731	-.0898	-.1099	-.1247	-.1423	-.1516	-.1673	-.1701	-.1747	-.1711	-.1703	-.1717
100.000						-.1101	-.1228	-.1346	-.1519	-.1684	-.1778	-.1877	-.1834	-.1859	-.1693
110.000						-.1271	-.1404	-.1508	-.1580	-.1756	-.1855	-.1870	-.1831	-.1804	-.1619
120.000						-.0920								.0000	
130.000						-.1458								-.1248	
140.000						-.1770								-.1248	
150.000						-.1696								-.1169	
160.000						-.1735								-.1090	
170.000						-.1762								-.1046	
180.000						-.1713	-.1522	-.1354	-.1236	-.1099	-.1027	-.1030	-.1011	-.1027	-.1008

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.561	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1691	-.1612	-.1522	-.1478	-.1432	-.1355	-.1226	-.1057	-.0879	-.0746	-.0603	-.0575	-.0589	-.0609	-.0864
100.000	-.1588	-.1539	-.1481	-.1426	-.1385	-.1374	-.1348	-.1215	-.0993	-.0865	-.0684	-.0606	-.0559	-.0545	-.0596
110.000	.0000	-.1429	-.1393	-.1361	-.1353	-.1344	-.1335	-.1301	-.1182	-.0985	-.0826	-.0715	-.0634	-.0598	-.0583
120.000						-.1284								-.0910	
130.000						-.1243								-.1130	
140.000						-.1179								-.1174	
150.000						-.1096								-.1149	
160.000						-.1060								-.1119	
170.000						-.1029								-.1099	
180.000	-.1014	-.1016	-.0992	-.1011	-.1055	-.1032	-.1049	-.1082	-.1071	-.1087	-.1057	-.1077	-.1074	-.1060	-.0819

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0511		
90.000							-.0566	-.0703	.0000
80.000							-.0503	-.0771	-.0945
90.000	-.0811	-.0848	-.0940	-.0840	.0256	.0000	-.0416	-.0742	-.1006
100.000	-.0801	-.0851	-.0935	-.0449	-.0141	-.0189			
110.000	-.0665	-.0732	-.0548	.0105	.0262	-.0268			
120.000						.0567			
130.000						.2322			
140.000						.2641			
150.000						.2013			
160.000						.1466			
170.000						.1354			
180.000	-.0843	-.0877	-.0270	.0879	.0972	.1702			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (Z) = 1.999 ALPHA (0) = 6.933

SECTION (1)CAB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2530	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0917	.1427	.0418												
90.000	.0985	.1350	.0834												
95.000	.1043	.1306	.1117												
98.000			.1375	.0560	-.0818	-.1205	-.1349	-.1532	-.1603	-.1751	-.1781	-.1811	-.1814	-.1808	-.1871
100.000						-.1213	-.1305	-.1439	-.1603	-.1762	-.1844	-.1935	-.1939	-.1950	-.1874
110.000						-.1213	-.1439	-.1549	-.1647	-.1844	-.1940	-.1983	-.1934	-.1955	-.1808
120.000						-.0966								.0000	
130.000						-.1577								-.1411	
140.000						-.1939								-.1370	
150.000						-.1837								-.1315	
160.000						-.1854								-.1255	
170.000						-.1914								-.1204	
180.000						-.1884	-.1696	-.1532	-.1395	-.1283	-.1215	-.1190	-.1182	-.1179	-.1168

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1838	-.1794	-.1690	-.1601	-.1418	-.1178	-.1050	-.0951	-.0887	-.0773	-.0637	-.0595	-.0609	-.0626	-.0708
100.000	-.1808	-.1731	-.1677	-.1595	-.1497	-.1320	-.1142	-.0978	-.0845	-.0815	-.0664	-.0628	-.0570	-.0570	-.0642
110.000	.0000	-.1603	-.1554	-.1524	-.1511	-.1426	-.1325	-.1095	-.0909	-.0815	-.0725	-.0673	-.0609	-.0581	-.0816
120.000						-.1402								-.0748	
130.000						-.1353								-.0875	
140.000						-.1311								-.1072	
150.000						-.1234								-.1158	
160.000						-.1211								-.1163	
170.000						-.1195								-.1136	
180.000	-.1168	-.1178	-.1182	-.1168	-.1178	-.1189	-.1234	-.1211	-.1236	-.1220	-.1155	-.1147	-.1124	-.1102	-.0850

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0589		
90.000							-.0702	-.0807	.0000
95.000							-.0824	-.0928	-.1072
98.000	-.0881	-.0898	-.0987	-.0850	.0105	.0000	-.0521	-.0857	-.1117
100.000	-.0832	-.0890	-.0982	-.0474	-.0245	-.0275			
110.000	-.0781	-.0816	-.0590	.0047	.0220	-.0290			
120.000						.0665			
130.000						.2346			
140.000						.2573			
150.000						.1947			
160.000						.1473			
170.000						.1265			
180.000	-.0682	-.0742	-.0026	.0442	.0652	.1106			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = 1.998 ALPHA (9) = 8.893

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.0798	.1353	.0278												
85.000	.0784	.1253	.0661												
90.000	.0884	.1181	.0921												
95.000			.1200	.0357	-.0947	-.1324	-.1470	-.1639	-.1689	-.1825	-.1861	-.1905	-.1925	-.1936	-.2001
100.000						-.1330	-.1393	-.1527	-.1672	-.1825	-.1926	-.2022	-.2034	-.2063	-.2056
110.000						-.1352	-.1494	-.1609	-.1716	-.1910	-.2014	-.2061	-.2080	-.2074	-.1979
120.000						-.1035								.0000	
130.000						-.1655								-.1547	
140.000						-.2057								-.1544	
150.000						-.1934								-.1457	
160.000						-.1931								-.1386	
170.000						-.1989								-.1351	
180.000						-.1978	-.1823	-.1664	-.1565	-.1421	-.1355	-.1343	-.1340	-.1329	-.1326

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.1983	-.1930	-.1769	-.1527	-.1263	-.1092	-.1009	-.0945	-.0885	-.0790	-.0633	-.0613	-.0633	-.0671	-.0759
100.000	-.1978	-.1914	-.1816	-.1631	-.1378	-.1089	-.0995	-.0940	-.0857	-.0826	-.0693	-.0635	-.0605	-.0594	-.0659
110.000	.0000	-.1797	-.1729	-.1663	-.1552	-.1250	-.1073	-.0918	-.0851	-.0813	-.0738	-.0674	-.0616	-.0591	-.0622
120.000						-.1538								-.0686	
130.000						-.1494								-.0768	
140.000						-.1444								-.0887	
150.000						-.1366								-.1015	
160.000						-.1350								-.1142	
170.000						-.1330								-.1175	
180.000	-.1334	-.1342	-.1331	-.1326	-.1334	-.1344	-.1358	-.1272	-.1322	-.1201	-.1208	-.1200	-.1183	.1192	-.0906

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
80.000							-.0701		
85.000							-.0861	-.0966	.0000
90.000							-.0904	-.1034	-.1207
95.000	-.0814	-.0936	-.1048	-.0890	.0033	.0000	-.0567	-.0940	-.1244
100.000	-.0822	-.0969	-.1045	-.0351	-.0154	-.0216			
110.000	-.0790	-.0906	-.0498	.0118	.0230	-.0138			
120.000						.0332			
130.000						.2073			
140.000						.2414			
150.000						.2088			
160.000						.1630			
170.000						.1396			
180.000	-.0739	-.0738	-.0501	.0353	.0873	.1047			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0155 SCALE

PARAMETRIC DATA

BETA = 4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .600 ALPHA (1) = -8.557

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2017	-.2311	-.3534												
70.000	-.1522	-.2272	-.3349												
80.000	-.1005	-.3068	-.3508												
90.000			-.5326	-.5154	-.4824	-.2984	-.2206	-.1746	-.1267	-.1335	-.1047	-.0779	-.0458	-.0375	-.0439
100.000						-.3068	-.2752	-.2257	-.1494	-.1206	-.1012	-.1076	-.0651	-.0844	-.0664
110.000						-.5740	-.3917	-.2795	-.1944	-.1573	-.1274	-.1031	-.0773	-.0909	-.0606
120.000						-.3281								.0000	
130.000						-.2538								-.1118	
140.000						-.2356								-.1050	
150.000						-.1920								-.0851	
160.000						-.1706								-.0703	
170.000						-.2069								-.0548	
180.000						-.1684	-.1280	-.1232	-.1093	-.0834	-.0568	-.0362	-.0301	-.0342	-.0079

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0304	-.0234	-.0089	-.0034	.0072	.0050	.0355	.0325	.0270	.0205	.0017	-.0360	-.0727	-.0596	-.0553
100.000	-.0465	-.0440	-.0478	-.0356	-.0179	-.0195	-.0282	-.0219	-.0108	-.0400	-.0514	-.0796	-.0931	-.0875	-.0963
110.000	.0000	-.0559	-.0517	-.0440	-.0337	-.0211	-.0147	-.0111	-.0072	-.0042	-.0170	-.0255	-.0317	-.0304	.0000
120.000						-.0713								-.0327	
130.000						-.0659								-.0396	
140.000						-.0550								.0033	
150.000						-.0082								-.0022	
160.000						-.0160								.0351	
170.000						.0147								.0449	
180.000	-.0414	-.0324	-.0163	-.0179	.0050	.0013	-.0049	-.0174	-.0118	.0033	.0251	.0231	.0290	.0526	.1544

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0498		
70.000							-.0858	-.0976	.0000
80.000							-.1367	-.1761	-.1448
90.000	-.0715	-.0851	-.1003	-.1342	.0000	.0000	-.1286	-.1736	-.1612
100.000	-.0766	-.0690	-.0879	-.0938	-.1335	-.1503			
110.000	-.0209	-.0215	-.0349	-.0615	-.1631	-.2674			
120.000						-.5635			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .600 ALPHA (1) = -8.557

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.3844			
140.000						-.5280			
150.000						.1063			
160.000						.1254			
170.000						.0813			
180.000	.0357	.1528	.2101	.2601	.3227	.4461			

MACH (1) = .601 ALPHA (2) = -6.414

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2021	-.2144	-.3354												
70.000	-.1455	-.2390	-.3221												
80.000	-.1157	-.2965	-.3470												
90.000			-.4877	-.5188	-.4683	-.2978	-.2090	-.1657	-.1224	-.1327	-.1027	-.0833	-.0613	-.0578	-.0748
100.000						-.3260	-.2595	-.2152	-.1563	-.1185	-.0988	-.0946	-.0722	-.0826	-.0706
110.000						-.5382	-.3636	-.2614	-.1744	-.1298	-.1111	-.1005	-.0976	-.1054	-.0839
120.000						-.3156								.0000	
130.000						-.2872								-.1243	
140.000						-.2587								-.1038	
150.000						-.2254								-.1086	
160.000						-.2225								-.0902	
170.000						-.2244								-.0793	
180.000						-.2072	-.1547	-.1360	-.1175	-.1036	-.0580	-.0635	-.0555	-.0439	-.0420

X/L	.4500	.4690	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0348	-.0271	-.0168	-.0078	.0073	.0037	.0073	.0073	-.0055	-.0222	-.0170	-.0524	-.0707	-.0874	-.0779
100.000	-.0574	-.0516	-.0516	-.0368	-.0213	-.0223	-.0232	-.0287	-.0163	-.0618	-.0409	-.0727	-.0923	-.0933	-.1111
110.000	.0000	-.0574	-.0342	-.0429	-.0332	-.0278	-.0274	-.0219	-.0238	-.0278	-.0291	-.0468	-.0540	-.0494	.0000
120.000						-.0455								-.0530	
130.000						-.0743								-.0367	
140.000						-.0694								-.0245	
150.000						-.0291								-.0019	
160.000						-.0304								.0147	
170.000						-.0304								.0274	
180.000	-.0406	-.0294	-.0294	-.0287	-.0217	-.0146	-.0284	-.0350	-.0291	-.0330	-.0006	.0007	.0212	.0394	.1207

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .601 ALPHA (2) = -6.414

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0553		
70.000							-.1006	-.0969	.0000
80.000							-.1251	-.1750	-.1214
90.000	-.1161	-.1083	-.1024	-.1294	.0000	.0000	-.1369	-.1583	-.1347
100.000	-.0832	-.0739	-.0872	-.0941	-.1440	-.1524			
110.000	-.0432	-.0454	-.0500	-.0785	-.1570	-.2631			
120.000						-.5575			
130.000						-.3680			
140.000						-.0534			
150.000						.1004			
160.000						.0970			
170.000						.0591			
180.000	.0724	.1294	.1645	.2243	.3108	.4257			

MACH (1) = .600 ALPHA (3) = -4.333

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1919	-.2168	-.3249												
70.000	-.1372	-.2152	-.3100												
80.000	-.1226	-.2763	-.0268												
90.000			-.4501	-.4957	-.4718	-.2996	-.2129	-.1695	-.1355	-.1404	-.1061	-.0906	-.0659	-.0605	-.0749
100.000						-.2993	-.2666	-.2132	-.1595	-.1226	-.0964	-.1097	-.0820	-.1010	-.0749
110.000						-.4899	-.3445	-.2478	-.1789	-.1355	-.1116	-.0994	-.0955	-.0923	-.0640
120.000						-.3226								.0000	
130.000						-.2932								-.1094	
140.000						-.2805								-.1061	
150.000						-.2394								-.1020	
160.000						-.2297								-.0988	
170.000						-.2466								-.0878	
180.000						-.2194	-.1750	-.1598	-.1427	-.1232	-.0825	-.0830	-.0704	-.0679	-.0576

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.71
PHI															
90.000	-.0418	-.0379	-.0279	-.0286	-.0044	-.0154	-.0020	-.0089	-.0148	-.0361	-.0473	-.0745	-.1079	-.1026	-.1041
100.000	-.0630	-.0637	-.0576	-.0373	-.0299	-.0337	-.0384	-.0367	-.0259	-.0646	-.0584	-.0859	-.1072	-.0922	-.1023
110.000	.0000	-.0547	-.0485	-.0427	-.0424	-.0324	-.0325	-.0321	-.0328	-.0367	-.0496	-.0659	-.0712	-.0656	.0000
120.000						-.0518								-.0659	
130.000						-.0833								-.0430	
140.000						-.0761								-.0305	
150.000						-.0436								-.0158	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .600 ALPHA (3) = -4.333

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4630	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0426								.0039	
170.000						-.0377								.0101	
180.000	-.0646	-.0559	-.0498	-.0469	-.0321	-.0390	-.0508	-.0489	-.0489	-.0436	-.0246	-.0207	.0029	.0117	.0973

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0621		
70.000							-.1021	-.1015	.0000
80.000							-.1343	-.1536	-.1257
90.000	-.1352	-.1175	-.1178	-.1373	.0000	.0000	-.1489	-.1508	-.1409
100.000	-.1001	-.0843	-.0945	-.1091	-.1467	-.1632			
110.000	-.0681	-.0573	-.0653	-.0815	-.1759	-.2833			
120.000						-.5271			
130.000						-.3521			
140.000						-.0673			
150.000						.0691			
160.000						.0660			
170.000						.0305			
180.000	.0560	.1127	.1666	.2135	.2761	.3876			

MACH (1) = .599 ALPHA (4) = -2.274

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1971	-.2117	-.3236												
70.000	-.1371	-.1981	-.3002												
80.000	-.1183	-.2772	-.3281												
90.000			-.4319	-.4867	-.4753	-.3019	-.2156	-.1773	-.1427	-.1485	-.1174	-.1051	-.0822	-.0706	-.0844
100.000						-.2938	-.2756	-.2069	-.1637	-.1294	-.1080	-.1135	-.0864	-.1025	-.0641
110.000						-.4533	-.3320	-.2474	-.1848	-.1375	-.1161	-.1038	-.0834	-.0983	-.0728
120.000						-.3161								.0000	
130.000						-.3109								-.1009	
140.000						-.2886								-.1086	
150.000						-.2623								-.1131	
160.000						-.2484								-.1021	
170.000						-.2600								-.1002	
180.000						-.2338	-.1971	-.1731	-.1611	-.1462	-.1145	-.0983	-.0854	-.0805	-.0686

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .599 ALPHA (4) = -2.274

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0531	-.0535	-.0516	-.0355	-.0271	-.0416	-.0175	-.0237	-.0333	-.0598	-.0739	-.1219	-.1380	-.1436	-.1300
100.000	-.0586	-.0780	-.0715	-.0519	-.0426	-.0561	-.0474	-.0454	-.0424	-.0802	-.0739	-.1127	-.1252	-.1166	-.1244
110.000	.0000	-.0671	-.0571	-.0522	-.0493	-.0542	-.0408	-.0424	-.0457	-.0559	-.0720	-.0884	-.0900	-.0920	.0000
120.000						-.0613								-.0736	
130.000						-.0795								-.0595	
140.000						-.0763								-.0470	
150.000						-.0533								-.0372	
160.000						-.0602								-.0221	
170.000						-.0480								-.0181	
180.000	-.0835	-.0668	-.0645	-.0651	-.0568	-.0513	-.0569	-.0602	-.0552	-.0497	-.0447	-.0359	-.0227	.0032	.0705

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0808		
70.000							-.1193	-.1069	.0000
80.000							-.1380	-.1582	-.1231
90.000	-.1533	-.1334	-.1250	-.1418	.0000	.0000	-.1414	-.1523	-.1299
100.000	-.1144	-.0995	-.1001	-.1038	-.1458	-.1790			
110.000	-.0842	-.0699	-.0631	-.0939	-.1825	-.2972			
120.000						-.5159			
130.000						-.3355			
140.000						-.0839			
150.000						.0400			
160.000						.0412			
170.000						.0147			
180.000	.0424	.0995	.1520	.1950	.2482	.3514			

MACH (1) = .801 ALPHA (5) = -.179

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1852	-.1978	-.3091												
70.000	-.1302	-.1797	-.2829												
80.000	-.1115	-.2505	-.3181												
90.000			-.3889	-.4801	-.4679	-.2922	-.2255	-.1812	-.1557	-.1637	-.1243	-.1159	-.0741	-.0661	-.0876
100.000						-.2858	-.2617	-.2180	-.1621	-.1301	-.1043	-.1237	-.0806	-.1063	-.0780
110.000						-.4300	-.3263	-.2533	-.1783	-.1427	-.1091	-.0828	-.0761	-.0909	-.0709
120.000						-.3152								.0000	
130.000						-.3249								-.1002	
140.000						-.3045								-.1021	
150.000						-.2696								-.1037	

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .401 ALPHA (5) = -.179

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.2593								-.1037	
170.000						-.2635								-.1040	
160.000						-.2589	-.2087	-.1880	-.1647	-.1424	-.1175	-.0973	-.0802	-.0892	-.0819
X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0532	-.0568	-.0584	-.0501	-.0404	-.0404	-.0285	-.0436	-.0551	-.0917	-.1152	-.1417	-.1731	-.1659	-.1425
100.000	-.0725	-.0812	-.0697	-.0568	-.0414	-.0648	-.0590	-.0551	-.0560	-.0986	-.0887	-.1309	-.1430	-.1312	-.1372
110.000	.0000	-.0674	-.0639	-.0562	-.0475	-.0610	-.0505	-.0521	-.0551	-.0685	-.0926	-.1139	-.1221	-.1132	.0000
120.000						-.0610								-.0723	
130.000						-.0652								-.0612	
140.000						-.0734								-.0487	
150.000						-.0521								-.0330	
160.000						-.0511								-.0304	
170.000						-.0459								-.0219	
180.000	-.0934	-.0681	-.0652	-.0758	-.0578	-.0580	-.0678	-.0809	-.0731	-.0770	-.0589	-.0455	-.0340	-.0134	.0625
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
80.000							-.0773								
70.000							-.1173	-.1052	.0000						
80.000							-.1312	-.1542	-.1194						
90.000	-.1691	-.1524	-.1353	-.1468	.0000	.0000	-.1393	-.1498	-.1368						
100.000	-.1288	-.0972	-.1074	-.1146	-.1623	-.1808									
110.000	-.0867	-.0674	-.0730	-.0935	-.1972	-.2899									
120.000						-.4734									
130.000						-.3098									
140.000						-.0878									
150.000						.0156									
160.000						.0264									
170.000						-.0001									
180.000	.0197	.0816	.1339	.1755	.2231	.3263									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .600 ALPHA (6) = 1.971

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1897	-.2017	-.3125												
70.000	-.1435	-.1965	-.2845												
80.000	-.1234	-.2492	-.3103												
90.000			-.3808	-.4701	-.4740	-.3016	-.2207	-.1745	-.1483	-.1548	-.1360	-.1150	-.0954	-.0938	-.1024
100.000						-.3061	-.2450	-.2068	-.1619	-.1224	-.1121	-.1273	-.0912	-.1111	-.0857
110.000						-.3996	-.3107	-.2360	-.1696	-.1428	-.1046	-.0996	-.0889	-.1105	-.0783
120.000						-.3207								.0000	
130.000						-.3414								-.0947	
140.000						-.3278								-.1108	
150.000						-.2835								-.1098	
160.000						-.2618								-.1163	
170.000						-.2780								-.1082	
180.000						-.2741	-.2172	-.1852	-.1755	-.1619	-.1163	-.1127	-.0950	-.1008	-.0870

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0867	-.0816	-.0816	-.0542	-.0487	-.0645	-.0592	-.0730	-.0808	-.1182	-.1304	-.1658	-.2018	-.1963	-.1834
100.000	-.0870	-.0863	-.0715	-.0696	-.0516	-.0764	-.0736	-.0959	-.0756	-.1244	-.1111	-.1556	-.1576	-.1514	-.1703
110.000	.0000	-.0628	-.0628	-.0661	-.0677	-.0661	-.0730	-.0743	-.0743	-.0857	-.1042	-.1301	-.1307	-.1232	.0000
120.000						-.0648								-.0825	
130.000						-.0821								-.0678	
140.000						-.0867								-.0576	
150.000						-.0644								-.0472	
160.000						-.0726								-.0399	
170.000						-.0625								-.0268	
180.000	-.0812	-.0809	-.0738	-.0890	-.0709	-.0690	-.0851	-.0864	-.0903	-.0857	-.0671	-.0593	-.0501	-.0259	.0375

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0786		
70.000							-.1133	-.1037	.0000
80.000							-.1341	-.1505	-.1081
90.000	-.1978	-.1781	-.1517	-.1517	.0000	.0000	-.1407	-.1459	-.1270
100.000	-.1440	-.1228	-.1269	-.1387	-.1626	-.1872			
110.000	-.1185	-.0855	-.0855	-.0931	-.1754	-.2769			
120.000						-.4317			
130.000						-.2809			
140.000						-.0932			
150.000						.0061			
160.000						.0188			
170.000						.0015			
180.000	.0092	.0603	.1142	.1530	.2031	.2989			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .800 ALPHA (7) = 4.051

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1838	-.1941	-.2805												
70.000	-.1281	-.1805	-.2818												
80.000	-.1307	-.2404	-.2840												
90.000			-.3523	-.4587	-.4600	-.2918	-.2130	-.1894	-.1567	-.1580	-.1356	-.1253	-.0988	-.0907	-.1129
100.000						-.2834	-.2586	-.2204	-.1564	-.1353	-.1195	-.1327	-.0910	-.1181	-.0901
110.000						-.3675	-.2955	-.2453	-.1754	-.1392	-.1224	-.0988	-.0946	-.1090	-.0852
120.000						-.3073								.0000	
130.000						-.3542								-.0930	
140.000						-.3396								-.1010	
150.000						-.2915								-.1007	
160.000						-.2830								-.1100	
170.000						-.2911								-.1023	
180.000						-.2733	-.2321	-.1965	-.1803	-.1515	-.1389	-.1084	-.1026	-.1020	-.0965

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0789	-.0782	-.0814	-.0660	-.0596	-.0821	-.0725	-.0820	-.0961	-.1482	-.1578	-.2004	-.2338	-.2141	-.1943
100.000	-.0852	-.0965	-.0818	-.0782	-.0634	-.0995	-.0922	-.0954	-.0886	-.1570	-.1253	-.1810	-.1964	-.1895	-.1776
110.000	.0000	-.0783	-.0769	-.0608	-.0699	-.0879	-.0866	-.0791	-.0935	-.1063	-.1361	-.1650	-.1496	-.1381	.0000
120.000						-.0647								-.1020	
130.000						-.0804								-.0686	
140.000						-.0807								-.0732	
150.000						-.0656								-.0624	
160.000						-.0564								-.0542	
170.000						-.0640								-.0411	
180.000	-.0879	-.0853	-.0882	-.0962	-.0811	-.0787	-.0876	-.0905	-.0922	-.0863	-.0745	-.0666	-.0548	-.0286	.0356

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0799		
70.000							-.1125	-.0992	.0000
80.000							-.1265	-.1495	-.1082
90.000	-.2018	-.1776	-.1534	-.1568	.0000	.0000	-.1405	-.1501	-.1113
100.000	-.1509	-.1236	-.1255	-.1245	-.1614	-.1802			
110.000	-.1072	-.0814	-.0637	-.0867	-.1519	-.2680			
120.000						-.4186			
130.000						-.2590			
140.000						-.1123			
150.000						-.0259			
160.000						-.0051			
170.000						-.0063			
180.000	.0125	.0603	.1000	.1290	.1861	.2567			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .601 ALPHA (8) = 6.196

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1770	-.1879	-.2739												
70.000	-.1151	-.1580	-.2679												
80.000	-.1186	-.2134	-.2788												
90.000			-.3104	-.4516	-.4652	-.2843	-.2268	-.1810	-.1745	-.1794	-.1468	-.1320	-.0933	-.0833	-.1212
100.000						-.2882	-.2726	-.2281	-.1703	-.1491	-.1223	-.1358	-.0984	-.1279	-.1016
110.000						-.3604	-.2932	-.2552	-.1942	-.1442	-.1287	-.1074	-.0811	-.1221	-.0958
120.000						-.3153								.0000	
130.000						-.3797								-.0856	
140.000						-.3394								-.1048	
150.000						-.3056								-.0926	
160.000						-.2827								-.1039	
170.000						-.2850								-.1106	
180.000						-.2834	-.2339	-.2023	-.1791	-.1536	-.1287	-.0962	-.0897	-.0994	-.0881

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0798	-.0854	-.0944	-.0768	-.0787	-.1085	-.0756	-.1018	-.1227	-.1704	-.1941	-.2350	-.2667	-.2386	-.2040
100.000	-.0859	-.1053	-.0918	-.0803	-.0649	-.0899	-.1015	-.1191	-.1171	-.1730	-.1644	-.2046	-.2183	-.2124	-.1935
110.000	.0000	-.0963	-.0870	-.0857	-.0854	-.1047	-.1050	-.0890	-.1119	-.1224	-.1569	-.1762	-.1830	-.1680	.0000
120.000						-.0790								-.0876	
130.000						-.0769								-.0729	
140.000						-.0760								-.0772	
150.000						-.0573								-.0657	
160.000						-.0685								-.0419	
170.000						-.0619								-.0546	
180.000	-.1124	-.0976	-.0867	-.0931	-.0912	-.0678	-.0822	-.0939	-.0988	-.0884	-.0902	-.0821	-.0556	-.0566	.0193

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0858		
70.000							-.1229	-.0898	.0000
80.000							-.1350	-.1436	-.1071
90.000	-.2046	-.1870	-.1632	-.1715	.0000	.0000	-.1183	-.1517	-.1220
100.000	-.1588	-.1239	-.1217	-.1230	-.1650	-.1910			
110.000	-.1158	-.0843	-.0778	-.0926	-.1724	-.2755			
120.000						-.3757			
130.000						-.2371			
140.000						-.1211			
150.000						-.0400			
160.000						-.0282			
170.000						.0079			
180.000	-.0054	.0518	.0955	.1232	.1575	.2092			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB014)

MACH (1) = .800 ALPHA (9) = 8.317

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1924	-.1992	-.2882												
70.000	-.1423	-.1736	-.2471												
80.000	-.1458	-.2254	-.2513												
90.000			-.3186	-.4493	-.4761	-.2895	-.2234	-.1998	-.1678	-.1856	-.1487	-.1371	-.1154	-.1164	-.1257
100.000						-.3030	-.2600	-.2195	-.1704	-.1455	-.1319	-.1565	-.1225	-.1289	-.1026
110.000						-.3567	-.3040	-.2532	-.2060	-.1591	-.1238	-.1177	-.1067	-.1331	-.0952
120.000						-.3247								.0000	
130.000						-.4040								-.0868	
140.000						-.3263								-.1045	
150.000						-.2975								-.0961	
160.000						-.2859								-.1074	
170.000						-.3021								-.1251	
180.000						-.2914	-.2318	-.2098	-.1781	-.1561	-.1290	-.1231	-.1080	-.0971	-.0919

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1116	-.0873	-.0965	-.0961	-.0884	-.1142	-.1196	-.1239	-.1570	-.1901	-.2189	-.2507	-.2763	-.2723	-.2368
100.000	-.1122	-.1110	-.1196	-.0936	-.0820	-.1135	-.1124	-.1321	-.1373	-.2012	-.1845	-.2297	-.2497	-.2202	-.2049
110.000	.0000	-.0990	-.0871	-.1026	-.1029	-.1106	-.1104	-.1121	-.1370	-.1550	-.1668	-.2035	-.1863	-.1871	.0000
120.000						-.0826								-.1131	
130.000						-.0862								-.0882	
140.000						-.0904								-.0728	
150.000						-.0727								-.0705	
160.000						-.0744								-.0472	
170.000						-.0852								-.0623	
180.000	-.0910	-.0891	-.0913	-.0900	-.0871	-.1085	-.1042	-.1131	-.1098	-.1124	-.0967	-.0941	-.0606	-.0551	.0080

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0766		
70.000							-.1060	-.0775	.0000
80.000							-.1318	-.1324	-.0946
90.000	-.2610	-.2024	-.1617	-.1689	.0000	.0000	-.1377	-.1479	-.1048
100.000	-.1751	-.1391	-.1394	-.1220	-.1580	-.1802			
110.00	-.1450	-.0956	-.0742	-.0935	-.1653	-.2659			
120.000						-.3329			
130.000						-.2144			
140.000						-.1340			
150.000						-.0347			
160.000						-.0033			
170.000						.0445			
180.000	-.0131	.0299	.0749	.1072	.1466	.2073			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = .750 ALPHA (1) = -8.476

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2165	-.2578	-.4389												
70.000	-.1456	-.2553	-.3933												
80.000	-.0986	-.3565	-.4562												
90.000			-.6065	-.6489	-.5432	-.3091	-.2392	-.1789	-.1361	-.1226	-.1006	-.0831	-.0512	-.0422	-.0480
100.000						-.3245	-.2831	-.2303	-.1597	-.1298	-.1083	-.0980	-.0785	-.0794	-.0680
110.000						-.6451	-.4095	-.2878	-.1959	-.1415	-.1076	-.1161	-.0922	-.1099	-.0605
120.000						-.3469								.0000	
130.000						-.2737								-.1387	
140.000						-.2742								-.1054	
150.000						-.2319								-.0812	
160.000						-.2150								-.0838	
170.000						-.2377								-.0687	
180.000						-.1970	-.1336	-.1560	-.1069	-.1043	-.0813	.0571	-.0489	-.0375	-.0168

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0308	-.0245	-.0087	-.0015	.0181	.0221	.0317	.0390	.0277	.0221	.0038	-.0149	-.0521	-.0535	-.0531
100.000	-.0552	-.0457	-.0852	-.0380	-.0801	-.0301	-.0138	-.0074	-.0081	-.0356	-.0369	-.0601	-.0826	-.0703	-.0892
110.000	.0000	-.0487	-.0461	-.0329	-.0385	-.0201	-.0098	.0165	.0092	-.0007	-.0071	-.0102	-.0296	-.0121	.0000
120.000						-.0645								-.0225	
130.000						-.0827								-.0388	
140.000						-.0640								-.0017	
150.000						-.0052								.0176	
160.000						-.0147								.0343	
170.000						-.0050								.0422	
180.000	-.0340	-.0201	-.0108	-.0075	-.0029	.0125	.0026	-.0081	-.0017	.0061	.0188	.0139	.0357	.0507	.1534

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0695		
70.000							-.1404	-.1561	.0000
80.000							-.1812	-.2090	-.1789
90.000	-.0939	-.0847	-.1038	-.1569	.0000	.0000	-.1709	-.1991	-.1619
100.000	-.0845	-.0643	-.0847	-.0972	-.1574	-.2038			
110.000	-.0264	-.0147	-.0531	-.0656	-.1911	-.3220			
120.000						-.6767			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .750 ALPHA (1) = -8.476

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.4198			
140.000						-.0242			
150.000						.1568			
160.000						.1522			
170.000						.0987			
180.000	-.0147	.1790	.2269	.2682	.3581	.4902			

MACH (1) = .750 ALPHA (2) = -8.418

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2028	-.2589	-.4346												
70.000	-.1162	-.2339	-.3760												
80.000	-.1088	-.3486	-.4213												
90.000			-.5746	-.6084	-.5423	-.3376	-.2231	-.1799	-.1360	-.1477	-.1051	-.0808	-.0730	-.0611	-.0743
100.000						-.3360	-.2890	-.2194	-.1631	-.1275	-.1051	-.0921	-.0874	-.0790	-.0604
110.000						-.5764	-.3743	-.2731	-.1970	-.1502	-.1151	-.1020	-.0869	-.0981	-.0774
120.000						-.3496								.0000	
130.000						-.3094								-.1199	
140.000						-.2633								-.1178	
150.000						-.2535								-.1146	
160.000						-.2348								-.1091	
170.000						-.2365								-.0867	
180.000						-.2145	-.1832	-.1467	-.1418	-.1308	-.0967	-.0511	-.0492	-.0567	-.0537

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0369	-.0293	-.0185	-.0090	.0086	.0066	.0147	.0254	.0150	-.0051	-.0086	-.0591	-.0766	-.0931	-.0800
100.000	-.0490	-.0592	-.0536	-.0362	-.0295	-.0266	-.0157	-.0247	-.0079	-.0498	-.0389	-.0657	-.0915	-.0797	-.0896
110.000	.0000	-.0683	-.0432	-.0536	-.0283	-.0155	-.0112	-.0143	-.0150	-.0122	-.0221	-.0394	-.0437	-.0425	.0000
120.000						-.0455								-.0482	
130.000						-.0782								-.0337	
140.000						-.0541								-.0110	
150.000						-.0375								-.0001	
160.000						-.0411								.0147	
170.000						-.0148								.0318	
180.000	-.0569	-.0432	-.0332	-.0334	-.0158	-.0051	-.0290	-.0323	-.0347	-.0112	-.0046	-.0181	.0171	.0442	.1160

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .750 ALPHA (2) = -6.418

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1143		
70.000							-.1484	-.1390	.0000
80.000							-.1721	-.1959	-.1567
90.000	-.1375	-.0881	-.1243	-.1700	.0000	.0000	-.1972	-.1901	-.1571
100.000	-.0869	-.0806	-.0912	-.1239	-.1571	-.2176			
110.000	-.0580	-.0445	-.0488	-.0907	-.2019	-.3709			
120.000						-.6517			
130.000						-.3991			
140.000						-.0381			
150.000						.1338			
160.000						.1245			
170.000						.0742			
180.000	-.0008	.1523	.2088	.2587	.3308	.4605			

MACH (1) = .749 ALPHA (3) = -4.312

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.1903	-.2413	-.3855												
70.000	-.1894	-.2172	-.3647												
80.000	-.1048	-.2823	-.3996												
90.000			-.3265	-.3932	-.3269	-.3195	-.2319	-.1830	-.1408	-.1537	-.1082	-.0950	-.0893	-.0858	-.0772
100.000						-.3228	-.2801	-.2118	-.1589	-.1315	-.1043	-.1071	-.0861	-.0940	-.0809
110.000						-.3178	-.3639	-.2602	-.1891	-.1392	-.1027	-.0970	-.0805	-.1019	-.0810
120.000						-.3441								.0000	
130.000						-.3120								-.1212	
140.000						-.2935								-.1129	
150.000						-.2631								-.1105	
160.000						-.2390								-.1033	
170.000						-.2395								-.0996	
180.000						-.2207	-.1891	-.1610	-.1551	-.1334	-.0978	-.0835	-.0828	-.0741	-.0672

X/L	.4500	.4680	.4880	.5050	.5240	.546/	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0486	-.0404	-.0255	-.0162	-.0083	-.0048	.0033	-.0029	-.0079	-.0037	-.0423	-.0821	-.1077	-.1139	-.1037
100.000	-.0840	-.0625	-.0565	-.0409	-.0271	-.0369	-.0273	-.0200	-.0148	-.0567	-.0463	-.0786	-.0942	-.0939	-.1087
110.000	.0000	-.0611	-.0514	-.0462	-.0346	-.0304	-.0288	-.0235	-.0240	-.0307	-.0425	-.0648	-.0636	-.0741	.0000
120.000						-.0444								-.0596	
130.000						-.0764								-.0592	
140.000						-.0769								-.0297	
150.000						-.0449								-.0157	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .749 ALPHA (3) = -4.312

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0430								-.0067	
170.000						-.0268								.0037	
160.000	-.0825	-.0481	-.0372	-.0358	-.0330	-.0363	-.0473	-.0527	-.0572	-.0454	-.0342	-.0240	-.0048	.0190	.0956

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1158		
70.000							-.1620	-.1304	.0000
60.000							-.1852	-.1959	-.1463
50.000	-.1302	-.1190	-.1327	-.1749	.0000	.0000	-.1807	-.1793	-.1533
100.000	-.1006	-.0862	-.1091	-.1313	-.1904	-.2402			
110.000	-.0673	-.0659	-.0628	-.1113	-.2285	-.3627			
120.000						-.6292			
130.000						-.3711			
140.000						-.0399			
150.000						.1049			
160.000						.1034			
170.000						.0552			
180.000	.0202	.1308	.1882	.2399	.3060	.4269			

MACH (1) = .750 ALPHA (4) = -2.119

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1160	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3390	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1649	-.2286	-.3750												
70.000	-.1197	-.2050	-.3628												
60.000	-.1148	-.2606	-.3703												
50.000			-.4009	-.5710	-.5398	-.5193	-.2252	-.1067	-.1481	-.1444	-.1196	-.1023	-.0792	-.0671	-.0834
100.000						-.3469	-.2735	-.2182	-.1621	-.1292	-.1023	-.1091	-.0815	-.1059	-.0834
110.000						-.4722	-.3395	-.2574	-.1785	-.1418	-.1112	-.0971	-.0864	-.1015	-.0822
120.000						-.3752								.0000	
130.000						-.3259								-.1083	
140.000						-.3053								-.1080	
150.000						-.2969								.1066	
160.000						-.2823								.1099	
170.000						-.2366								-.1027	
180.000						-.2396	-.1981	-.1829	-.1624	-.1458	-.1121	-.0969	-.0862	-.0848	-.0771

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .750 ALPHA (4) = -2.119

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4390	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0304	-.0504	-.0408	-.0294	-.0250	-.0225	-.0074	-.0119	-.0280	-.0548	-.0735	-.1112	-.1446	-.1434	-.1360
100.000	-.0718	-.0769	-.0717	-.0497	-.0406	-.0415	-.0456	-.0415	-.0363	-.0757	-.0700	-.1133	-.1348	-.1223	-.1360
110.000	.0000	-.0594	-.0543	-.0473	-.0450	-.0397	-.0420	-.0406	-.0363	-.0468	-.0662	-.0854	-.0851	-.1041	.0000
120.000						-.0508								-.0766	
130.000						-.0763								-.0572	
140.000						-.0776								-.0446	
150.000						-.0548								-.0302	
160.000						-.0536								-.0224	
170.000						-.0477								-.0098	
180.000	-.0808	-.0717	-.0613	-.0613	-.0531	-.0472	-.0595	-.0683	-.0731	-.0700	-.0503	-.0515	-.0302	-.0018	.0734

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1110		
70.000							-.1592	-.1399	.0000
80.000							-.1868	-.1949	-.1406
90.000	-.1658	-.1514	-.1539	-.1745	.0000	.0000	-.1962	-.1805	-.1509
100.000	-.1227	-.1178	-.1216	-.1436	-.2057	-.2419			
110.000	-.0891	-.0779	-.0851	-.1173	-.2182	-.3549			
120.000						-.6025			
130.000						-.3415			
140.000						-.0594			
150.000						.0789			
160.000						.0646			
170.000						.0393			
180.000	-.0364	.1104	.1540	.2150	.2762	.3831			

MACH (1) = .730 ALPHA (5) = -.071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1878	-.2257	-.3660												
70.000	-.1208	-.2023	-.3412												
80.000	-.1098	-.2184	-.3575												
90.000			-.4515	-.5847	-.5511	-.3113	-.2308	-.1900	-.1522	-.1524	-.1269	-.1108	-.0868	-.0766	-.0952
100.000						-.3152	-.2710	-.2192	-.1601	-.1321	-.1080	-.1150	-.0880	-.1085	-.0836
110.000						-.4496	-.3270	-.2547	-.1804	-.1416	-.1048	-.0957	-.0917	-.1006	-.0782
120.000						-.3370								.0000	
130.000						-.3407								-.1129	
140.000						-.3302								-.1150	
150.000						-.3384								-.1020	

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .750 ALPHA (5) = -.071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2907								-.1110	
170.000						-.2991								-.1092	
180.000						-.2785	-.2038	-.1732	-.1662	-.1372	-.1113	-.1085	-.0841	-.0985	-.0769
X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6680	.7100
PHI															
90.000	-.0859	-.0570	-.0510	-.0410	-.0368	-.0373	-.0261	-.0379	-.0509	-.0755	-.0978	-.1489	-.1877	-.1772	-.1651
100.000	-.0748	-.0812	-.0617	-.0582	-.0382	-.0470	-.0571	-.0639	-.0512	-.0933	-.0940	-.1411	-.1517	-.1470	-.1368
110.000	.0000	-.0705	-.0558	-.0535	-.0556	-.0619	-.0628	-.0467	-.0658	-.0763	-.0883	-.1153	-.1172	-.1304	.0000
120.000						-.0535								-.0918	
130.000						-.0848								-.0675	
140.000						-.0853								-.0561	
150.000						-.0554								-.0393	
160.000						-.0658								-.0284	
170.000						-.0625								-.0379	
180.000	-.0900	-.0784	-.0698	-.0754	-.0642	-.0580	-.0760	-.0886	-.0848	-.0800	-.0741	-.0575	-.0417	-.0228	.0464
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
60.000							-.1207								
70.000							-.1650	-.1386	.0000						
80.000							-.1776	-.1917	-.1316						
90.000	-.2084	-.1640	-.1561	-.1980	.0000	.0000	-.1843	-.1823	-.1543						
100.000	-.1521	-.1313	-.1474	-.1546	-.2061	-.2510									
110.000	-.1183	-.0976	-.0999	-.1245	-.2085	-.3478									
120.000						-.5561									
130.000						-.3288									
140.000						-.0624									
150.000						.0478									
160.000						.0504									
170.000						.0084									
180.000	-.0564	.0814	.1377	.1844	.2391	.3494									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .750 ALPHA (6) = 2.173

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1709	-.2093	-.3520												
70.000	-.1276	-.1999	-.3167												
80.000	-.1175	-.2462	-.3372												
90.000			-.4171	-.5691	-.5635	-.3197	-.2314	-.1903	-.1593	-.1614	-.1329	-.1161	-.0832	-.0804	-.0971
100.000						-.3295	-.2758	-.2204	-.1647	-.1411	-.1180	-.1215	-.0836	-.1085	-.0878
110.000						-.4005	-.3169	-.2424	-.1768	-.1338	-.1100	-.0906	-.0841	-.1015	-.0811
120.000						-.3314								.0000	
130.000						-.3629								-.1008	
140.000						-.3713								-.1085	
150.000						-.3732								-.0976	
160.000						-.3671								-.0971	
170.000						-.3632								-.1008	
180.000						-.3531	-.2130	-.1749	-.1567	-.1432	-.1161	-.1129	-.1031	-.0934	-.0857

X/L	.4500	.4680	.4960	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0894	-.0899	-.0575	-.0530	-.0386	-.0576	-.0497	-.0553	-.0669	-.1109	-.1326	-.1815	-.2205	- 2219	-.2007
100.000	-.0794	-.0839	-.0739	-.0630	-.0549	-.0697	-.0631	-.0726	-.0560	-.1156	-.1167	-.1659	-.1853	-.1775	-.1871
110.000	.0000	-.0706	-.0718	-.0614	-.0665	-.0734	-.0660	-.0612	-.0738	-.0847	-.1210	-.1406	-.1524	-.1515	.0000
120.000						-.0597								-.1054	
130.000						-.0754								-.0846	
140.000						-.0851								-.0652	
150.000						-.0636								-.0598	
160.000						-.0653								-.0491	
170.000						-.0683								-.0593	
180.000	-.0950	-.0850	-.0769	-.0853	-.0769	-.0754	-.0797	-.0806	-.0913	-.0996	-.0782	-.0777	-.0652	-.0418	.0314

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1157		
70.000							-.1594	-.1292	.0000
80.000							-.1753	-.1726	-.1319
90.000	-.2363	-.2081	-.1918	-.2092	.0000	.0000	-.1903	-.1872	-.1471
100.000	-.1785	-.1445	-.1358	-.1624	-.2276	-.2461			
110.000	-.1317	-.1178	-.0916	-.1250	-.2147	-.3453			
120.000						-.5126			
130.000						-.3034			
140.000						-.0873			
150.000						.0139			
160.000						.0146			
170.000						-.0132			
180.000	-.0462	.0797	.1242	.1696	.2092	.3070			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .750 ALPHA (7) = 4.244

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1955	-.2228	-.3350												
70.000	-.1349	-.1871	-.3023												
80.000	-.1202	-.2319	-.3235												
90.000			-.3817	-.5425	-.5493	-.3247	-.2380	-.1994	-.1545	-.1688	-.1450	-.1244	-.0909	-.0993	-.1011
100.000						-.3298	-.2861	-.2207	-.1690	-.1354	-.1099	-.1380	-.0948	-.1276	-.0886
110.000						-.3976	-.3184	-.2520	-.1866	-.1438	-.1141	-.1023	-.0816	-.1.20	-.0802
120.000						-.3383								.0000	
130.000						-.3894								-.1048	
140.000						-.3990								-.1051	
150.000						-.4397								-.0958	
160.000						-.4460								-.0988	
170.000						-.4437								-.1086	
180.000						-.4299	-.2515	-.1959	-.1461	-.1370	-.1162	-.1067	-.0983	-.0979	-.0909

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0849	-.0883	-.0872	-.0821	-.0572	-.0733	-.0636	-.0731	-.1001	-.1384	-.1614	-.2130	-.2518	-.2598	-.2316
100.000	-.0851	-.0944	-.0858	-.0686	-.0554	-.0791	-.0868	-.0942	-.0845	-.1448	-.1514	-.1931	-.2338	-.2.59	-.2206
110.000	.0000	-.0895	-.0640	-.0733	-.0677	-.0816	-.0859	-.0752	-.0873	-.0911	-.1363	-.1680	-.1782	-.1704	.0000
120.000						-.0658								-.1235	
130.000						-.0887								-.0982	
140.000						-.0864								-.0790	
150.000						-.0714								-.0707	
160.000						-.0776								-.0655	
170.000						-.0757								-.0643	
180.000	-.1084	-.0835	-.0877	-.0902	-.0802	-.0849	-.0991	-.1017	-.0954	-.1039	-.1060	-.0996	-.0719	-.0575	.0021

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1107		
70.000							-.1595	-.1322	.0000
80.000							-.1743	-.1716	-.1234
90.000	-.2561	-.2298	-.2025	-.2081	.0000	.0000	-.1887	-.1766	-.1409
100.000	-.2007	-.1691	-.1588	-.1669	-.2233	-.2604			
110.000	-.1471	-.1179	-.1115	-.1225	-.2053	-.3333			
120.000						-.4729			
130.000						-.2869			
140.000						-.0983			
150.000						-.0102			
160.000						-.0046			
170.000						-.0006			
180.000	-.0739	.0556	.1021	.1461	.1776	.2667			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .791 ALPHA (8) = 6.485

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1972	-.2033	-.2985												
70.000	-.1349	-.1788	-.2983												
80.000	-.1284	-.2192	-.3121												
90.000			-.3499	-.5352	-.5625	-.3321	-.2527	-.2004	-.1780	-.1714	-.1539	-.1324	-.1003	-.0954	-.1128
100.000						-.3256	-.2835	-.2317	-.1616	-.1392	-.1226	-.1240	-.0970	-.1367	-.1040
110.000						-.3963	-.3064	-.2536	-.1941	-.1443	-.1140	-.1049	-.0956	-.1198	-.0861
120.000						-.3655								.0000	
130.000						-.4201								-.1044	
140.000						-.4677								-.0984	
150.000						-.5093								-.0903	
160.000						-.5574								-.0982	
170.000						-.5410								-.1084	
180.000						-.5170	-.3141	-.2023	-.1551	-.1313	-.1128	-.0959	-.0966	-.1075	-.0952

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0775	-.0893	-.0760	-.0595	-.0640	-.0704	-.0760	-.0935	-.1214	-.1680	-.1965	-.2528	-.3091	-.2930	-.2720
100.000	-.0891	-.0907	-.0787	-.0767	-.0607	-.0894	-.1041	-.1037	-.1115	-.1815	-.1747	-.2289	-.2507	-.2377	-.2346
110.000	.0000	-.0738	-.0765	-.0689	-.0787	-.0876	-.1011	-.0883	-.1086	-.1186	-.1622	-.1982	-.1944	-.2107	.0000
120.000						-.0624								-.1490	
130.000						-.0933								-.1135	
140.000						-.0930								-.0931	
150.000						-.0753								-.0851	
160.000						-.0753								-.0823	
170.000						-.0819								-.0844	
180.000	-.0985	-.0885	-.0800	-.0809	-.0805	-.0926	-.1119	-.1162	-.1238	-.1231	-.1149	-.1066	-.0955	-.0600	-.0027

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1077		
70.000							-.1377	-.1259	.0000
80.000							-.1657	-.1523	-.1142
90.000	-.2825	-.2384	-.2059	-.2227	.0000	.0000	-.1857	-.1675	-.1171
100.000	-.2328	-.1871	-.1782	-.1826	-.2185	-.2385			
110.000	-.1826	-.1388	-.1173	-.1334	-.2144	-.3239			
120.000						-.4343			
130.000						-.2645			
140.000						-.0929			
150.000						-.0307			
160.000						.0031			
170.000						.0348			
180.000	-.0994	.0430	.0843	.1124	.1543	.2085			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (1) = .750 ALPHA (9) = 8.515

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1914	-.2075	-.2851												
70.000	-.1432	-.1626	-.2695												
80.000	-.1439	-.2194	-.2924												
90.000			-.3214	-.5115	-.5737	-.3405	-.2592	-.2197	-.1858	-.1945	-.1664	-.1421	-.1102	-.0997	-.1176
100.000						-.3548	-.3013	-.2459	-.1891	-.1702	-.1319	-.1508	-.1174	-.1330	-.1000
110.000						-.3880	-.3125	-.2681	-.1912	-.1527	-.1330	-.1011	-.0911	-.1307	-.0925
120.000						-.3742								.0000	
130.000						-.4598								-.0979	
140.000						-.5456								-.0921	
150.000						-.5875								-.0855	
160.000						-.6197								-.0772	
170.000						-.6179								-.0976	
180.000						-.6375	-.4258	-.2363	-.1686	-.1354	-.1143	-.0953	-.0942	-.0876	-.0916

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6480	.7100
PHI															
90.000	-.0832	-.0870	-.0970	-.0784	-.0737	-.1067	-.0935	-.1108	-.1539	-.2008	-.2259	-.2933	-.3435	-.3390	-.2971
100.000	-.1046	-.1135	-.0981	-.0967	-.0837	-.1123	-.1129	-.1255	-.1260	-.2062	-.2112	-.2725	-.2969	-.2815	-.2702
110.000	.0000	-.0860	-.0958	-.0965	-.1009	-.1153	-.1177	-.1103	-.1179	-.1478	-.1911	-.2299	-.2221	-.2347	.0000
120.000						-.0851								-.1587	
130.000						-.1051								-.1466	
140.000						-.1047								-.1133	
150.000						-.0777								-.1031	
160.000						-.0973								-.0984	
170.000						-.0810								-.0991	
180.000	-.1035	-.1028	-.1014	-.1086	-.0981	-.1039	-.1144	-.1241	-.1321	-.1437	-.1303	-.1277	-.1187	-.0925	-.0311

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1159		
70.000							-.1422	-.1287	.0000
80.000							-.1731	-.1471	-.1130
90.000	-.3132	-.2612	-.2361	-.2271	.0000	.0000	-.1711	-.1711	-.1251
100.000	-.2486	-.1971	-.1762	-.1827	-.2397	-.2500			
110.000	-.1852	-.1448	-.1285	-.1408	-.2119	-.3367			
120.000						-.4293			
130.000						-.2670			
140.000						-.1059			
150.000						-.0395			
160.000						.0022			
170.000						.0610			
180.000	-.1222	.0130	.0531	.0932	.1224	.1867			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (RE8015)

MACH (2) = .852 ALPHA (1) = -8.483

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1217	-.2164	-.5489												
70.000	-.0742	-.2021	-.4488												
80.000	-.0374	-.2781	-.4516												
90.000			-.5638	-.8845	-.6371	-.6064	-.4999	-.3842	-.1720	-.1152	-.0740	-.0798	-.0335	-.0346	-.0399
100.000						-.6198	-.5768	-.3822	-.1865	-.1025	-.1012	-.0858	-.0737	-.0735	-.0518
110.000						-.6261	-.5693	-.3734	-.1874	-.1627	-.1243	-.0828	-.0890	-.0853	-.0662
120.000						-.4400								.0000	
130.000						-.3288								-.0961	
140.000						-.2348								-.1092	
150.000						-.1950								-.0795	
160.000						-.1922								-.0739	
170.000						-.1970								-.0492	
180.000						-.1291	-.1204	-.1299	-.1435	-.1178	-.0636	-.0507	-.0378	-.0365	-.0247

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0201	-.0396	-.0220	-.0029	-.0009	.0040	.0333	.0435	.0483	.0188	.0017	-.0188	-.0383	-.0455	-.0429
100.000	-.0485	-.0861	-.0639	-.0519	-.0237	-.0115	.0059	-.0068	.0236	-.0044	-.0011	-.0033	-.0429	-.0258	-.0365
110.000	.0000	-.0820	-.0375	-.0246	-.0182	-.0128	.0149	.0392	.0368	.0359	.0049	.0021	-.0027	.0028	.0000
120.000						-.0328								-.0050	
130.000						-.0507								.0028	
140.000						-.0425								.0067	
150.000						.0026								.0162	
160.000						-.0088								.0404	
170.000						.0083								.0497	
180.000	-.0332	-.0074	-.0048	-.0009	-.0003	.0171	.0120	.0033	.0290	.0158	.0214	.0181	.0426	.0779	.1647

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1565		
70.000							-.2377	-.2081	.0000
80.000							-.2522	-.2908	-.2104
90.000	-.0870	-.0350	-.0809	-.1248	.0000	.0000	-.2508	-.2690	-.1926
100.000	-.0433	-.0201	-.0461	-.0715	-.1700	-.2792			
110.000	.0087	.0133	.0131	-.0493	-.1932	-.4025			
120.000						-.6265			
130.000						-.3521			
140.000						.0384			
150.000						.2028			
160.000						.1876			
170.000						.1491			
180.000	.0038	.2144	.2778	.3363	.3847	.5082			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (2) = .848 ALPHA (2) = -6.320

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.1453	-.2355	-.3455												
70.000	-.0967	-.1945	-.4553												
80.000	-.0516	-.2717	-.4551												
90.000			-.5511	-.8897	-.6506	-.6033	-.3849	-.2992	-.1574	-.1065	-.0753	-.0393	-.0313	-.0287	-.0546
100.000						-.5899	-.4907	-.3086	-.1969	-.1160	-.1080	-.0766	-.0733	-.0826	-.0667
110.000						-.6246	-.4805	-.3530	-.1915	-.1787	-.0952	-.0902	-.0650	-.0891	-.0727
120.000						-.5004								.0000	
130.000						-.3705								-.1042	
140.000						-.2671								-.0960	
150.000						-.2296								-.0960	
160.000						-.2108								-.0865	
170.000						-.1919								-.0796	
180.000						-.1602	-.1106	-.1158	-.1273	-.1004	-.0746	-.0822	-.0552	-.0490	-.0449

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0283	-.0211	-.0250	.0065	-.0004	.0128	.0249	.0299	.0234	.0004	-.0004	-.0338	-.0667	-.0716	-.0756
100.000	-.0836	-.0847	-.0552	-.0401	-.0151	-.0185	-.0196	.0062	.0195	-.0310	-.0048	-.0364	-.0667	-.0461	-.0825
110.000	.0000	-.0487	-.0336	-.0293	-.0259	-.0021	-.0100	.0110	.0191	.0082	.0034	-.0261	-.0160	-.0318	.0000
120.000						-.0222								-.0140	
130.000						-.0631								-.0076	
140.000						-.0616								-.0024	
150.000						-.0095								.0163	
160.000						-.0326								.0295	
170.000						.0023								.0469	
180.000	-.0382	-.0284	-.0228	-.0202	-.0149	-.0113	-.0141	-.0198	-.0[illegible]	-.0238	-.0083	.0014	.0263	.0543	.1281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1943		
70.000							-.2208	-.2124	.0000
80.000							-.2857	-.2965	-.1633
90.000	-.1055	-.0870	-.1134	-.1540	.0000	.0000	-.2944	-.2634	-.2008
100.000	-.0924	-.0521	-.0758	-.1134	-.2089	-.3081			
110.000	-.0292	-.0147	-.0317	-.0779	-.2074	-.4267			
120.000						-.6236			
130.000						-.3394			
140.000						.0306			
150.000						.1743			
160.000						.1666			
170.000						.1300			
180.000	-.0284	.1756	.2443	.2899	.3633	.4763			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (2) = .850 ALPHA (3) = -4.217

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1542	-.2355	-.5370												
70.000	-.0932	-.2047	-.4539												
80.000	-.0700	-.2514	-.4359												
90.000			-.5217	-.8711	-.6875	-.5766	-.4353	-.2622	-.1747	-.0758	-.0570	-.0503	-.0338	-.0321	-.0565
100.000						-.5487	-.5056	-.3247	-.2022	-.1033	-.0728	-.0726	-.0616	-.0782	-.0629
110.000						-.6210	-.5342	-.3453	-.2338	-.1381	-.0923	-.0771	-.0694	-.0778	-.0558
120.000						-.5563								.0000	
130.000						-.4706								-.1008	
140.000						-.4212								-.0978	
150.000						-.3118								-.0982	
160.000						-.2986								-.0898	
170.000						-.2969								-.0855	
180.000						-.2307	-.1096	-.0996	-.1141	-.1089	-.0879	-.0741	-.0618	-.0672	-.0502

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0278	-.0263	-.0198	-.0153	-.0035	.0038	.0201	.0184	.0119	-.0037	-.0188	-.0547	-.0957	-.0975	-.0920
100.000	-.0515	-.0803	-.0567	-.0397	-.0211	-.0323	-.0159	-.0089	-.0102	-.0460	-.0335	-.0661	-.0874	-.0819	-.0953
110.000	.0000	-.0427	-.0521	-.0270	-.0261	-.0153	-.0091	-.0083	-.0078	-.0140	-.0324	-.0499	-.0585	-.0602	.0000
120.000						-.0291								-.0341	
130.000						-.0600								-.0262	
140.000						-.0611								-.0201	
150.000						-.0276								.0005	
160.000						-.0385								.0045	
170.000						-.0192								.0097	
180.000	-.0587	-.0429	-.0397	-.0427	-.0338	-.0269	-.0370	-.0416	-.0453	-.0396	-.0251	-.0297	-.0071	.0162	.0990

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2319		
70.000							-.2553	-.2026	.0000
80.000							-.3020	-.2780	-.1961
90.000	-.1213	-.1277	-.1269	-.1836	.0000	.0000	-.3170	-.2397	-.2026
100.000	-.1065	-.1267	-.0924	-.1296	-.2193	-.3245			
110.000	-.0511	-.0513	-.0386	-.0816	-.2235	-.4431			
120.000						-.6150			
130.000						-.3166			
140.000						.0107			
150.000						.1460			
160.000						.1203			
170.000						.1039			
180.000	-.0438	.1295	.1936	.2644	.3230	.4218			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (2) = .849 ALPHA (4) = -2.083

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1564	-.2313	-.5108												
70.000	-.0979	-.1900	-.4281												
80.000	-.0801	-.2465	-.4159												
90.000			-.4646	-.8237	-.9084	-.4246	-.3576	-.2046	-.1046	-.0965	-.0630	-.0606	-.0560	-.0569	-.0765
100.000						-.5061	-.5060	-.2287	-.1412	-.0701	-.0500	-.0673	-.0648	-.0939	-.0683
110.000						-.5256	-.4921	-.2852	-.1797	-.1110	-.0740	-.0916	-.0793	-.0976	-.0747
120.000						-.4469								.0000	
130.000						-.4814								-.0810	
140.000						-.5711								-.0847	
150.000						-.5780								-.0816	
160.000						-.3778								-.0739	
170.000						-.5858								-.0821	
180.000						-.6291	-.1312	-.0916	-.0942	-.0933	-.0734	-.0732	-.0564	-.0696	-.0607

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0463	-.0402	-.0232	-.0193	-.0111	-.0070	.0009	-.0006	-.0138	-.0474	-.0520	-.0913	-.1282	-.1413	-.1366
100.000	-.0642	-.0645	-.0572	-.0415	-.0234	-.0270	-.0338	-.0320	-.0197	-.0627	-.0545	-.0852	-.1159	-.1036	-.1219
110.000	.0000	-.0432	-.0447	-.0417	-.0257	-.0277	-.0293	-.0298	-.0305	-.0307	-.0573	-.0711	-.0920	-.0955	.0000
120.000						-.0307								-.0608	
130.000						-.0724								-.0312	
140.000						-.0592								-.0286	
150.000						-.0425								-.0191	
160.000						-.0500								-.0152	
170.000						-.0366								-.0147	
180.000	-.0727	-.0512	-.0479	-.0473	-.0380	-.0417	-.0555	-.0614	-.0676	-.0676	-.0538	-.0564	-.0303	-.0038	.0797

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2710		
70.000							-.2708	-.1841	.0000
80.000							-.3753	-.2512	-.1752
90.000	-.1628	-.1318	-.1728	-.2095	.0000	.0000	-.3599	-.2329	-.1826
100.000	-.1316	-.1109	-.1304	-.1605	-.2548	-.3483			
110.000	-.0909	-.0722	-.0807	-.1206	-.2402	-.4643			
120.000						-.6023			
130.000						-.2984			
140.000						-.0060			
150.000						.1134			
160.000						.1033			
170.000						.0792			
180.000	-.0883	.1128	.1747	.2293	.2823	.3805			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (2) = .850 ALPHA (5) = .060

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1616	-.2279	-.4700												
70.000	-.1053	-.1924	-.4081												
80.000	-.0878	-.2417	-.3994												
90.000			-.4533	-.7808	-.9302	-.3892	-.2781	-.1763	-.1395	-.1417	-.1116	-.1036	-.0887	-.0569	-.0741
100.000						-.3959	-.3333	-.2183	-.1544	-.1198	-.0884	-.1096	-.0562	-.0909	-.0661
110.000						-.5040	-.3681	-.2807	-.2179	-.1627	-.1285	-.0911	-.0687	-.0963	-.0623
120.000						-.5458								.0000	
130.000						-.5614								-.0642	
140.000						-.6538								-.0575	
150.000						-.7089								-.0347	
160.000						-.7465								-.0373	
170.000						-.7524								-.0493	
180.000						-.7387	-.5595	-.4054	-.2555	-.1246	-.0895	-.0567	-.0483	-.0517	-.0528

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0429	-.0524	-.0421	-.0287	-.0181	-.0339	-.0087	-.0142	-.0251	-.0554	-.0940	-.1357	-.1750	-.1767	-.1763
100.000	-.0549	-.0705	-.0666	-.0535	-.0309	-.0410	-.0379	-.0379	-.0282	-.0793	-.0714	-.1295	-.1585	-.1500	-.1591
110.000	.0000	-.0627	-.0571	-.0494	-.0451	-.0554	-.0447	-.0251	-.0381	-.0449	-.0846	-.1105	-.1159	-.1219	.0000
120.000						-.0507								-.0857	
130.000						-.0585								-.0623	
140.000						-.0622								-.0628	
150.000						-.0469								-.0622	
160.000						-.0425								-.0411	
170.000						-.0449								-.0468	
180.000	-.0808	-.0563	-.0552	-.0653	-.0546	-.0521	-.0719	-.0752	-.0789	-.0813	-.0703	-.0773	-.0670	-.0446	.0446

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2108		
70.000							-.2775	-.1944	.0000
80.000							-.2951	-.2465	-.1672
90.000	-.2050	-.1693	-.1882	-.2297	.0000	.0000	-.3032	-.2698	-.1813
100.000	-.1899	-.1450	-.1526	-.1863	-.2802	-.3666			
110.000	-.1190	-.1040	-.0928	-.1265	-.2598	-.4257			
120.000						-.5884			
130.000						-.3132			
140.000						-.0288			
150.000						.0597			
160.000						.0486			
170.000						.0261			
180.000	-.1142	.0092	.1544	.1966	.2472	.3425			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (2) = .849 ALPHA (6) = 2.275

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CF

X/L	.0870	.1200	.1640	.2030	.2420	.2640	.2820	.301	.3190	.3380	.3570	.3750	.394	.4050	.4310
PHI															
60.000	-.1785	-.2509	-.4193												
70.000	-.1118	-.1975	-.3787												
80.000	-.1069	-.2383	-.3587												
90.000			-.3950	-.7080	-.8962	-.3776	-.2658	-.1981	-.1621	-.1645	-.1352	-.1098	-.0875	-.0894	-.0871
100.000						-.3911	-.3117	-.2384	-.1729	-.1376	-.1081	-.1137	-.0808	-.1067	-.0735
110.000						-.4374	-.3532	-.3124	-.2248	-.1690	-.1304	-.0909	-.0827	-.0912	-.0676
120.000						-.5111								.0000	
130.000						-.5907								-.0568	
140.000						-.6801								-.0564	
150.000						-.7152								-.0471	
160.000						-.7415								-.0543	
170.000						-.7757								-.0480	
180.000						-.7701	-.6293	-.4639	-.3380	-.1998	-.1359	-.0784	-.0588	-.0564	-.0547

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0506	-.0414	-.0369	-.0235	-.0156	-.0402	-.0197	-.0263	-.0533	-.0931	-.1173	-.1630	-.2243	-.2287	-.2114
100.000	-.0894	-.0643	-.0591	-.0397	-.0272	-.0460	-.0555	-.0463	-.0487	-.1091	-.0980	-.1454	-.1933	-.1788	-.2071
110.000	.0000	-.0475	-.0563	-.0496	-.0462	-.0576	-.0551	-.0518	-.0625	-.0794	-.0982	-.1351	-.1380	-.1452	.0000
120.000						-.0443								-.1026	
130.000						-.0623								-.0813	
140.000						-.0665								-.0775	
150.000						-.0522								-.0760	
160.000						-.0612								-.0676	
170.000						-.0553								-.0628	
180.000	-.0492	-.0494	-.0529	-.0576	-.0591	-.0702	-.0715	-.0961	-.0922	-.1086	-.0837	-.0960	-.0771	-.0658	.0000

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2549		
70.000							-.2553	-.1725	.0000
80.000							-.2680	-.2391	-.1515
90.000	-.2529	-.2046	-.2187	-.2562	.0000	.0000	-.3019	-.2495	-.1675
100.000	-.2110	-.1625	-.1888	-.2092	-.3061	-.3726			
110.000	-.1921	-.1218	-.1205	-.1638	-.2653	-.4792			
120.000						-.5553			
130.000						-.2934			
140.000						-.0581			
150.000						.0161			
160.000						.0149			
170.000						.0219			
180.000	-.1482	.0680	.1190	.1506	.2120	.3006			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REDO:5)

MACH (Z) = .849 ALPHA (Y) = 4.438

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1824	-.2444	-.3480												
90.000	-.1187	-.1989	-.3159												
95.000	-.1153	-.2288	-.3265												
90.000			-.3340	-.6812	-.8674	-.3550	-.2431	-.2117	-.1840	-.1857	-.1515	-.1392	-.0896	-.0847	-.0847
100.000						-.3972	-.3120	-.2615	-.2141	-.1802	-.1442	-.1424	-.0840	-.1097	-.93
110.000						-.5468	-.3641	-.3241	-.2795	-.1892	-.1500	-.0998	-.0696	-.1006	-.0696
120.000						-.5458								.0000	
130.000						-.5943								-.0631	
140.000						-.6808								-.0532	
150.000						-.7321								-.0536	
160.000						-.7521								-.0569	
170.000						-.7659								-.0584	
180.000						-.7573	-.6748	-.5267	-.4241	-.2886	-.2098	-.0851	-.0666	-.0595	-.0498

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0564	-.0581	-.0529	-.0400	-.0249	-.0407	-.0336	-.0404	-.0707	-.1151	-.1365	-.2025	-.2617	-.2634	-.2705
100.000	-.0838	-.0745	-.0540	-.0499	-.0374	-.0592	-.0591	-.0637	-.0628	-.1245	-.1275	-.1860	-.2363	-.2176	-.2389
110.000	.0000	-.0549	-.0512	-.0534	-.0450	-.0669	-.0593	-.0530	-.0694	-.0973	-.1266	-.1707	-.1841	-.1898	.0000
120.000						-.0478								-.1395	
130.000						-.0639								-.0972	
140.000						-.0538								-.0974	
150.000						-.0527								-.0920	
160.000						-.0501								-.0933	
170.000						-.0569								-.0959	
180.000	-.0564	-.0523	-.0579	-.0536	-.0844	-.0725	-.0857	-.1024	-.1122	-.1072	-.1139	-.1042	-.1029	-.0873	-.0080

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.2373		
90.000							-.2469	-.1634	.0000
95.000							-.2641	-.2178	-.1482
90.000	-.3025	-.2141	-.2368	-.2749	.0000	.0000	-.3271	-.2328	-.1684
100.000	-.2809	-.2052	-.2063	-.2314	-.3121	-.4043			
110.000	-.1819	-.1526	-.1536	-.1823	-.2780	-.4920			
120.000						-.5547			
130.000						-.2944			
140.000						-.0703			
150.000						-.0122			
160.000						-.0151			
170.000						.0226			
180.000	-.1706	.0298	.0791	.1169	.1654	.2332			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (P) = .848 ALPHA (B) = 6.582

SECTION (11)AB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3730	.3940	.4050	.4310
PHI															
60.000	-.1993	-.2618	-.2997												
70.000	-.1588	-.1980	-.2639												
80.000	-.1304	-.2269	-.3067												
90.000			-.3331	-.6549	-.6276	-.4368	-.2608	-.2311	-.2140	-.2122	-.1680	-.1478	-.1111	-.0909	-.0958
100.000						-.4385	-.3174	-.2784	-.2380	-.1843	-.1444	-.1585	-.1202	-.1193	-.0840
110.000						-.5446	-.3555	-.3557	-.2818	-.2129	-.1604	-.1252	-.1021	-.1256	-.077
120.000						-.5721								.0000	
130.000						-.6185								-.1001	
140.000						-.6966								-.0747	
150.000						-.7256								-.0827	
160.000						-.7380								-.0809	
170.000						-.7439								-.0768	
180.000						-.7449	-.7021	-.5972	-.4858	-.3547	-.2328	-.1821	-.0913	-.0835	-.0514

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0762	-.0592	-.0548	-.0371	-.0330	-.0492	-.0368	-.0656	-.0893	-.1359	-.1624	-.2380	-.2992	-.3111	-.2954
100.000	-.0788	-.0748	-.0567	-.0496	-.0407	-.0509	-.0656	-.0829	-.0807	-.1478	-.1528	-.2099	-.2606	-.2595	-.2895
110.000	.0000	-.0524	-.0416	-.0489	-.0457	-.0612	-.0651	-.0704	-.0772	-.1141	-.1453	-.1901	-.2020	-.2228	.0000
120.000						-.0617								-.1602	
130.000						-.0678								-.1312	
140.000						-.0671								-.1152	
150.000						-.0502								-.1091	
160.000						-.0605								-.0961	
170.000						-.0698								-.1148	
180.000	-.0567	-.0461	-.0500	-.0526	-.0610	-.0715	-.0922	-.1052	-.1196	-.1295	-.1304	-.1205	-.1264	-.1163	-.0309

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1773		
70.000							-.2299	-.1640	.0000
80.000							-.2594	-.2183	-.1498
90.000	-.3771	-.3118	-.2879	-.2952	.0000	.0000	-.2690	-.2149	-.1729
100.000	-.3212	-.2446	-.2234	-.2421	-.3274	-.3968			
110.000	-.2313	-.1905	-.1672	-.1861	-.2827	-.4836			
120.000						-.5555			
130.000						-.2806			
140.000						-.0922			
150.000						-.0269			
160.000						-.0093			
170.000						.0497			
180.000	-.2109	-.0101	.0414	.0804	.1228	.1866			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (2) = .850 ALPHA (9) = 8.766

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1978	-.2509	-.2776												
70.000	-.1457	-.1881	-.2646												
80.000	-.1474	-.2260	-.2544												
90.000			-.2856	-.6062	-.8133	-.4587	-.2745	-.2635	-.2381	-.2453	-.2093	-.1783	-.1330	-.1147	-.1244
100.000						-.4546	-.3139	-.3113	-.2693	-.2130	-.1868	-.1805	-.1321	-.1560	-.1011
110.000						-.5438	-.3746	-.3782	-.3033	-.2515	-.2004	-.1506	-.1248	-.1392	-.0817
120.000						-.5733								.0000	
130.000						-.6309								-.1041	
140.000						-.6851								-.0998	
150.000						-.7098								-.1218	
160.000						-.7271								-.1080	
170.000						-.7191								-.0892	
180.000						-.7392	-.7009	-.6587	-.5649	-.4447	-.3122	-.1978	-.1246	-.1164	-.0563

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5960	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0782	-.0785	-.0727	-.0537	-.0537	-.0701	-.0524	-.0695	-.0976	-.1475	-.1829	-.2735	-.3316	-.3578	-.3291
100.000	-.0909	-.0878	-.0854	-.0721	-.0630	-.0714	-.0755	-.0871	-.1020	-.1637	-.1778	-.2511	-.3058	-.3005	-.3156
110.000	.0000	-.0695	-.0563	-.0604	-.0660	-.0764	-.0731	-.0807	-.0987	-.1178	-.1783	-.2206	-.2342	-.2586	.0000
120.000						-.0693								-.2059	
130.000						-.0693								-.1636	
140.000						-.0663								-.1497	
150.000						-.0496								-.1342	
160.000						-.0569								-.1228	
170.000						-.0682								-.1353	
180.000	-.0509	-.0570	-.0578	-.0641	-.0746	-.0761	-.0963	-.1194	-.1249	-.1387	-.1524	-.1563	-.1627	-.1355	-.0575

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1781		
70.000							-.2145	-.2043	.0000
80.000							-.2629	-.2625	-.1750
90.000	-.4274	-.3432	-.2807	-.2726	.0000	.0000	-.2922	-.2656	-.1908
100.000	-.3692	-.2676	-.2235	-.2167	-.2819	-.3232			
110.000	-.2453	-.1859	-.1564	-.1622	-.2461	-.4082			
120.000						-.4591			
130.000						-.2409			
140.000						-.1121			
150.000						-.0364			
160.000						-.0150			
170.000						.0610			
180.000	-.2611	-.0261	.0117	.0588	.0984	.1202			

AMES 68-65D PRESSURE VENTING - INTEG. VEHICLE (PEB013)

MACH (3) = .949 ALPHA (3) = -8.341

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0256	-.0913	-.3838												
70.000	.0264	-.0745	-.3012												
80.000	.0662	-.1634	-.2862												
90.000			-.3732	-.6879	-.8832	-.9204	-.9068	-.8363	-.7732	-.5813	-.4872	-.3488	-.2256	-.2252	-.1435
100.000						-.9202	-.9390	-.8933	-.8153	-.6911	-.5092	-.4041	-.2831	-.2575	-.2107
110.000						-1.0850	-1.0040	-.9131	-.8050	-.7700	-.6707	-.3886	-.4009	-.3789	-.2072
120.000						-.8428								.0050	
130.000						-.7869								-.5972	
140.000						-.7255								-.5914	
150.000						-.5358								-.5554	
160.000						-.4443								-.5119	
170.000						-.4618								-.4628	
180.000						-.4822	-.4174	-.3964	-.4068	-.4278	-.4113	-.4222	-.4280	-.4377	-.3984

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5870	.5980	.6170	.6360	.6540	.6730	.6880	.7140
PHI															
90.000	-.0781	-.0256	.0209	.0679	.0750	.1011	.1334	.1420	.1367	.1286	.1233	.0958	.0633	.0675	.0654
100.000	-.1119	-.0449	-.0186	.0321	.0272	.0693	.0815	.0876	.1034	.0806	.0962	.0720	.0533	.0644	.0456
110.000	.0000	-.0825	-.0188	-.0069	.0033	.0723	.1032	.1103	.1184	.1222	.1206	.1102	.1120	.1039	.0910
120.000						.0820								.1137	
130.000						.0544								.1147	
140.000						.0584								.1249	
150.000						.0823								.1316	
160.000						.1021								.1481	
170.000						.0811								.1514	
180.000	-.3744	-.0585	.0278	.0446	.0658	.0960	.0932	.0913	.0955	.0996	.1143	.1185	.1279	.1633	.2365

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1361		
70.000							-.2146	-.2445	.0000
80.000							-.2511	-.3065	-.2286
90.000	.0357	.0648	.0173	-.0251	.0000	.0000	-.2383	-.2686	-.2303
100.000	.0531	.0781	.0579	.0389	-.0385	-.1399			
110.000	.1134	.1181	.1094	.0733	-.0430	-.2413			
120.000						-.4489			
130.000						-.1745			
140.000						.1797			
150.000						.3143			
160.000						.2868			
170.000						.2561			
180.000	.1090	.2835	.3550	.4075	.4788	.5795			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RFB015)

MACH (3) = .951 ALPHA (2) = -6.259

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CF

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0349	-.0978	-.3892												
70.000	.0173	-.0776	-.3026												
80.000	.0516	-.1223	-.2981												
90.000			-.3616	-.6852	-.9011	-.9314	-.9168	-.8429	-.8055	-.5537	-.3979	-.3705	-.2661	-.2330	-.1556
100.000						-.9312	-.9436	-.9195	-.8728	-.5720	-.4530	-.3603	-.2962	-.2708	-.1926
110.000						-1.0790	-1.0030	-.8736	-.8286	-.5305	-.5776	-.3775	-.3375	-.3179	-.2239
120.000						-.8735								.0000	
130.000						-.8538								-.4488	
140.000						-.7973								-.5012	
150.000						-.6753								-.5848	
160.000						-.5272								-.5479	
170.000						-.5358								-.5163	
180.000						-.5555	-.4702	-.4403	-.4517	-.4661	-.4407	-.4570	-.4593	-.4616	-.3445

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0891	-.0242	.0636	.0643	.1139	.1152	.1423	.1423	.1326	.1176	.1175	.0863	.0523	.0463	.0535
100.000	-.1374	-.0457	-.0137	.0451	.0657	.0805	.0862	.0872	.0928	.0670	.0965	.0657	.0428	.0463	.0343
110.000	.0000	-.1005	-.0416	.0285	.0587	.0761	.0779	.0872	.0881	.0847	.0888	.0698	.0706	.0625	.0000
120.000						.0855								.0925	
130.000						.0650								.0954	
140.000						.0502								.0975	
150.000						.0758								.1075	
160.000						.0764								.1171	
170.000						.0822								.1234	
180.000	-.3949	-.0678	.0161	.0609	.0759	.0893	.0710	.0720	.0714	.0706	.0896	.0875	.1104	.1279	.2098

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1546		
70.000							-.2245	-.2898	.0000
80.000							-.2566	-.3472	-.3016
90.000	.0141	.0293	.0007	-.0493	.0000	.0000	-.2542	-.3187	-.3028
100.000	.0258	.0452	.0084	.0036	-.0734	-.1516			
110.000	.0766	.0879	.0827	.0487	-.0458	-.2370			
120.000						-.4303			
130.000						-.1639			
140.000						.1564			
150.000						.2881			
160.000						.2545			
170.000						.2367			
180.000	.0803	.2476	.3053	.3622	.4432	.5449			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (3) = .950 ALPHA (3) = -4.164

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0547	-.1093	-.3937												
70.000	-.0021	-.0827	-.3069												
80.000	.0258	-.1212	-.2865												
90.000			-.3455	-.6714	-.9009	-.8878	-.9245	-.8298	-.7608	-.4825	-.4825	-.3629	-.2881	-.2476	-.1476
100.000						-.9298	-.9506	-.9319	-.5965	-.6389	-.4526	-.4084	-.3325	-.2934	-.1836
110.000						-1.0610	-1.0070	-.9689	-.7182	-.5178	-.4528	-.4109	-.3577	-.3046	-.2263
120.000						-.8878								.0000	
130.000						-.8976								-.4275	
140.000						-.8525								-.4477	
150.000						-.7499								-.5493	
160.000						-.5985								-.5786	
170.000						-.5929								-.5408	
180.000						-.6122	-.5407	-.4960	-.5087	-.5097	-.5016	-.4661	-.4576	-.4840	-.3940

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0442	.0085	.0400	.1020	.1254	.1292	.1388	.1388	.1325	.1082	.0898	.0545	.0191	.0164	.0263
100.000	-.0997	-.0562	.0170	.0236	.0872	.0936	.0957	.0988	.1090	.0745	.0886	.0420	.0183	.0395	.0083
110.000	.0000	-.0669	-.0003	.0276	.0739	.0749	.0847	.0909	.0880	.0795	.0668	.0462	.0356	.0341	.0000
120.000						.0820								.0728	
130.000						.0605								.0717	
140.000						.0626								.0830	
150.000						.0751								.0840	
160.000						.0676								.1003	
170.000						.0726								.0975	
180.000	-.3040	.0197	.0486	.0342	.0648	.0722	.0649	.0589	.0597	.0576	.0665	.0668	.0819	.1015	.1794

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1633		
70.000							-.2242	-.3150	.0000
80.000							-.2557	-.3662	-.3325
90.000	-.0123	.0107	-.0180	-.0522	.0000	.0000	-.2605	-.3564	-.3433
100.000	.0051	.0298	.0211	-.0095	-.0962	-.1679			
110.000	.0482	.0731	.0824	.0466	-.0617	-.2403			
120.000						-.4183			
130.000						-.1440			
140.000						.1586			
150.000						.2593			
160.000						.2164			
170.000						.1994			
180.000	.0488	.2250	.2863	.3425	.4001	.4964			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (3) = .940 ALPHA (4) = -1.995

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0883	-.1424	-.4180												
70.000	-.0414	-.1082	-.3269												
80.000	-.0095	-.1520	-.3043												
90.000			-.3513	-.6795	-.9196	-.9417	-.9218	-.8472	-.6337	-.5051	-.4480	-.3697	-.2822	-.2469	-.1071
100.000						-.8879	-.8167	-.9326	-.6608	-.5698	-.4705	-.4230	-.3185	-.2679	-.1490
110.000						-1.0610	-1.0000	-.9737	-.6075	-.5579	-.5193	-.4114	-.3378	-.2932	-.1988
120.000						-.9163								.0000	
130.000						-.9561								-.2378	
140.000						-.9194								-.2795	
150.000						-.8372								-.3002	
160.000						-.6847								-.3496	
170.000						-.6582								-.3589	
180.000						-.6784	-.6012	-.5543	-.5437	-.5414	-.5381	-.4724	-.2341	-.4480	-.1886

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0316	.0082	.0753	.1103	.1199	.1120	.0944	.0913	.0963	.0700	.0646	.0195	-.0216	-.0305	-.0393
100.000	-.0559	.0047	.0390	.0891	.1074	.0997	.0756	.0737	.0900	.0491	.0613	.0289	-.0043	-.0166	-.0387
110.000	.0000	-.0235	.0424	.0411	.0897	.0845	.0668	.0702	.0647	.0645	.0575	.0277	.0126	.0063	.0000
120.000						.0803								.0362	
130.000						.0475								.0471	
140.000						.0442								.0621	
150.000						.0539								.0640	
160.000						.0424								.0692	
170.000						.0428								.0657	
180.000	.0047	-.0608	.0299	.0559	.0549	.0399	.0269	.0336	.0338	.0346	.0458	.0492	.0548	.0663	.1224

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1817		
70.000							-.2413	-.3414	.0000
80.000							-.2643	-.3964	-.3810
90.000	-.0735	-.0519	-.0623	-.0972	.0000	.0000	-.2785	-.3826	-.3838
100.000	-.0573	-.0273	-.0323	-.0415	-.1232	-.1879			
110.000	-.0094	.0159	.0431	.0133	-.0642	-.2487			
120.000						-.3880			
130.000						-.1224			
140.000						.1389			
150.000						.2249			
160.000						.1887			
170.000						.1659			
180.000	-.0110	.1779	.2413	.2978	.3612	.4648			

AMES 66-65C PRESSURE VENTING - INTEG. VEHICLE (REDCIS)

MACH (S) = .951 ALPHA (S) = .13C

SECTION (1)CRB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0475	.1265	.1845	.2535	.2425	.264	.2825	.3 1C	.3135	.3385	.3575	.3755	.3945	.4035	.4315
PHI															
65.000	-.1748	-.1191	-.3928												
75.000	-.1527	-.0976	-.3035												
85.000	-.0822	-.1183	-.2755												
95.000			-.3193	-.6313	-.6765	-.8868	-.8578	-.7833	-.5385	-.4888	-.4148	-.3216	-.2575	-.1813	-.0908
105.000						-.8914	-.9096	-.7547	-.5495	-.5173	-.4377	-.3225	-.2564	-.2338	-.0226
115.000						-1.0175	-.9783	-.9478	-.8150	-.5255	-.4781	-.3931	-.3592	-.3599	-.0575
125.000						-.9681								.0000	
135.000						-.9851								-.1696	
145.000						-.9436								-.2511	
155.000						-.8546								-.3286	
165.000						-.7248								-.2683	
175.000						-.7142								-.1468	
185.000						-.7169	-.6428	-.5345	-.5817	-.5792	-.5805	-.5275	-.4637	-.4655	-.0418

X/L	.4505	.4685	.4885	.5085	.5245	.5485	.5815	.5805	.5985	.6175	.6365	.6545	.6735	.6885	.7135
PHI															
95.000	-.0255	.0267	.0514	.0703	.0981	.0993	.1121	.1001	.0785	.0426	.0213	-.0283	-.0794	-.0925	-.0768
105.000	-.0037	.0428	.0685	.0872	.0978	.0882	.0836	.0807	.0878	.0261	.0132	-.0232	-.0582	-.0512	-.0635
115.000	.0000	.0525	.0788	.0961	.0967	.0801	.0784	.0851	.0753	.0374	.0326	-.014.	-.0201	-.0295	.0000
125.000						.0785								.0037	
135.000						.0675								.0281	
145.000						.0653								.0395	
155.000						.0588								.0440	
165.000						.0653								.0436	
175.000						.06 3								.0427	
185.000	-.0128	.0429	.0598	.0582	.0473	.06 7	.0581	.0395	.0278	.0195	.0228	.0145	.0176	.0335	.1153

X/L	.7295	.7475	.7675	.7855	.8035	.8295	.8625	.9005	.9405
PHI									
65.000							-.2035		
75.000							-.2438	-.3584	.0000
85.000							-.2755	-.4132	-.4094
95.000	-.1121	-.0523	-.0757	-.0984	.0000	.0000	-.2845	-.4040	-.4112
105.000	-.1543	-.0209	-.0233	-.0511	-.1374	-.2099			
115.000	-.0187	.0278	.0262	-.0013	-.0874	-.2731			
125.000						-.3721			
135.000						-.1235			
145.000						.1121			
155.000						.1774			
165.000						.1380			
175.000						.1297			
185.000	-.0084	.1775	.2298	.2719	.3187	.4144			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (PEB015)

MACH (3) = .951 ALPHA (6) = 2.319

SECTION (1:068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
65.000	-.1558	-.1716	-.3952												
75.000	-.0870	-.1266	-.3038												
85.000	-.0832	-.1560	-.2680												
95.000			-.2960	-.6148	-.8347	-.8116	-.7655	-.7017	-.6513	-.4133	-.4235	-.2933	-.1704	-.1501	-.0713
105.000						-.8203	-.8292	-.7691	-.7008	-.4955	-.3579	-.3252	-.2166	-.1859	-.0379
115.000						-.9849	-.9211	-.8675	-.7930	-.4602	-.3939	-.3223	-.2426	-.2222	-.1077
125.000						-.8925								.0000	
135.000						-1.0020								-.1888	
145.000						-.9718								-.1229	
155.000						-.9077								-.1685	
165.000						-.7772								-.1204	
175.000						-.7348								-.1415	
185.000						-.7599	-.6747	-.6338	-.5990	-.6007	-.5630	-.4823	-.4283	-.2705	-.0398

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
95.000	.0145	.0494	.0313	.0547	.0722	.0718	.0859	.0867	.0648	.0312	-.0035	-.0665	-.1234	-.1440	-.1423
105.000	.0077	.0613	.0539	.0745	.0704	.0621	.0706	.0758	.0714	.0195	.0077	-.0584	-.1009	-.1055	-.1247
115.000	.0000	.0720	.0512	.0774	.0698	.0626	.0741	.0766	.0648	.0407	.0035	-.0409	-.0549	-.0757	.0000
125.000						.0724								-.0224	
135.000						.0615								.0000	
145.000						.0582								.0029	
155.000						.0628								.0062	
165.000						.0568								.0122	
175.000						.0568								.0107	
185.000	-.0388	.0220	.0239	.0459	.0459	.0537	.0436	.0378	.0254	.0118	-.0053	-.0158	-.0131	.0097	.0792

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
65.000							-.2202		
75.000							-.2797	-.3774	.0000
85.000							-.2916	-.4332	-.4415
95.000	-.1817	-.1155	-.1014	-.1138	.0000	.0000	-.2967	-.4285	-.4350
105.000	-.1800	-.0758	-.0554	-.0639	-.1531	-.2443			
115.000	-.0583	-.0140	.0078	-.0044	-.1048	-.3107			
125.000						-.3685			
135.000						-.1109			
145.000						.0905			
155.000						.1438			
165.000						.1054			
175.000						.1332			
185.000	-.0566	.1937	.2074	.2498	.2830	.3569			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (PEG015)

MACH (S) = .947 ALPHA (Z) = 4.515

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1902	-.2094	-.3726												
70.000	-.1238	-.1612	-.3007												
80.000	-.1115	-.1730	-.2755												
90.000			-.2883	-.5687	-.7358	-.7783	-.7708	-.7181	-.6136	-.5394	-.4525	-.3116	-.1535	-.1046	-.0658
100.000						-.7903	-.8063	-.7859	-.7028	-.4702	-.3988	-.2945	-.1429	-.1362	-.0427
110.000						-.8649	-.8447	-.8516	-.8024	-.4335	-.3781	-.2969	-.2221	-.1710	-.0141
120.000						-.8552								.0000	
130.000						-1.0320								-.1243	
140.000						-1.0260								-.1212	
150.000						-.9436								-.0939	
160.000						-.8128								-.0484	
170.000						-.7854								-.1529	
180.000						-.6068	-.7384	-.6636	-.6605	-.6060	-.5543	-.2725	-.1985	-.1176	-.0355

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0144	.0146	.0361	.0450	.0631	.0505	.0546	.0470	.0261	-.0166	-.0473	-.1084	-.1779	-.1959	-.2025
100.000	-.0015	.0253	.0375	.0377	.0584	.0615	.0466	.0331	.0329	-.0224	-.0291	-.0948	-.1400	-.1461	-.1819
110.000	.0000	.0592	.0563	.0530	.0569	.0524	.0445	.0418	.0271	.0043	-.0283	-.0724	-.0980	-.1155	.0000
120.000						.0650								-.0536	
130.000						.0532								-.0314	
140.000						.0437								-.0222	
150.000						.0526								-.0174	
160.000						.0447								-.0170	
170.000						.0410								-.0179	
180.000	-.0100	.0245	.0297	.0425	.0414	.0387	.0238	.0072	.0000	-.0139	-.0216	-.0393	-.0327	-.0201	.0286

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2315		
70.000							-.2886	-.3968	.0000
80.000							-.3123	-.4570	-.4613
90.000	-.2516	-.1912	-.1747	-.1489	.0000	.0000	-.3153	-.4556	-.4574
100.000	-.2433	-.1385	-.1236	-.1092	-.1884	-.2759			
110.000	-.1080	-.0802	-.0398	-.0580	-.1425	-.3482			
120.000						-.3589			
130.000						-.1322			
140.000						.0744			
150.000						.1180			
160.000						.0905			
170.000						.1497			
180.000	-.1125	.1018	.1548	.1969	.2300	.2713			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (9) = .948 ALPHA (8) = 6.656

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2125	-.1953	-.3273												
70.000	-.1681	-.1420	-.2780												
80.000	-.1599	-.1784	-.2514												
90.000			-.2689	-.4895	-.7653	-.8026	-.7530	-.6284	-.5556	-.4925	-.3937	-.3312	-.1988	-.1369	-.0801
100.000						-.8040	-.8184	-.7239	-.6255	-.4671	-.3631	-.3363	-.1375	-.1432	-.0274
110.000						-.8912	-.8665	-.8227	-.6307	-.4646	-.3798	-.2991	-.2050	-.1289	-.0358
120.000						-.8376								.0000	
130.000						-1.0140								-.1445	
140.000						-1.0440								-.1283	
150.000						-.9677								-.0991	
160.000						-.7982								-.0957	
170.000						-.8168								-.1596	
180.000						-.8467	-.7617	-.6691	-.6383	-.5888	-.5224	-.2810	-.2191	-.1192	-.0319

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0053	.0082	.0309	.0484	.0437	.0414	.0404	.0257	-.0021	-.0459	-.0728	-.1395	-.2080	-.2225	-.2410
100.000	-.0082	.0026	.0379	.0383	.0586	.0385	.0255	.0113	.0078	-.0605	-.0578	-.1221	-.1692	-.1756	-.2161
110.000	.0000	.0408	.0319	.0559	.0546	.0489	.0286	.0218	.0036	-.0251	-.0540	-.0964	-.1190	-.1403	.0000
120.000						.0617								-.0751	
130.000						.0450								-.0467	
140.000						.0495								-.0436	
150.000						.0619								-.0396	
160.000						.0491								-.0404	
170.000						.0396								-.0440	
180.000	.0006	.0418	.0181	.0451	.0586	.0326	.0123	-.0067	-.0230	-.0426	-.0400	-.0592	-.0551	-.0400	-.0019

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2607		
70.000							-.3091	-.4150	.0000
80.000							-.3287	-.4785	-.4844
90.000	-.2993	-.2329	-.2151	-.1967	.0000	.0000	-.3291	-.4807	-.4785
100.000	-.2811	-.1773	-.1520	-.1437	-.2218	-.3087			
110.000	-.1573	-.1129	-.0719	-.0868	-.1744	-.3770			
120.000						-.3625			
130.000						-.1317			
140.000						.0299			
150.000						.1205			
160.000						.1075			
170.000						.1831			
180.000	-.1334	.0827	.1149	.1459	.2020	.2560			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB015)

MACH (3) = .949 ALPHA (9) = 8.819

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1170	.1645	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2462	-.1899	-.1887												
70.000	-.2095	-.1250	-.1541												
80.000	-.2007	-.1700	-.1527												
90.000			-.1879	-.4780	-.7601	-.7821	-.6694	-.5730	-.5223	-.5132	-.4597	-.3987	-.2947	-.1411	-.0727
100.000						-.7768	-.7714	-.6422	-.5549	-.5143	-.3921	-.3774	-.1848	-.2024	-.0426
110.000						-.8693	-.8462	-.7853	-.6150	-.4943	-.4141	-.3252	-.2188	-.1528	-.0294
120.000						-.8437								.0000	
130.000						-1.0250								-.1538	
140.000						-1.0740								-.1149	
150.000						-.9941								-.1436	
160.000						-.8538								-.1225	
170.000						-.8266								-.1500	
180.000						-.8713	-.7702	-.6618	-.6565	-.5827	-.3877	-.2928	-.2055	-.1815	-.0999

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7150
PHI															
90.000	-.0264	-.0053	-.0094	.0143	.0322	.0069	.0183	.0055	-.0173	-.0695	-.1014	-.1767	-.2389	-.2600	-.2786
100.000	-.0154	-.0018	.0160	.0190	.0448	.0172	-.0016	-.0088	-.0131	-.0833	-.0886	-.1619	-.2057	-.2124	-.2616
110.000	.0000	.0160	.0273	.0271	.0397	.0221	.0121	.0015	-.0076	-.0401	-.0907	-.1356	-.1579	-.1759	.0000
120.000						.0411								-.1116	
130.000						.0344								-.0907	
140.000						.0352								-.0811	
150.000						.0505								-.0755	
160.000						.0538								-.0753	
170.000						.0418								-.0849	
180.000	-.0049	.0250	.0353	.0393	.0576	.0267	.0017	-.0071	-.0282	-.0537	-.0696	-.0899	-.0895	-.0805	-.0277

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2991		
70.000							-.3462	-.4517	.0000
80.000							-.3685	-.5132	-.5055
90.000	-.3375	-.2660	-.2304	-.2095	.0000	.0000	-.3675	-.5219	-.5045
100.000	-.3278	-.2105	-.1636	-.1529	-.2379	-.3474			
110.000	-.1881	-.1257	-.0818	-.0946	-.1942	-.4094			
120.000						-.3897			
130.000						-.1319			
140.000						.0092			
150.000						.1109			
160.000						.1151			
170.000						.2207			
180.000	-.1859	.0308	.0970	.1403	.1732	.1981			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (4) = 1.040 ALPHA (1) = -8.396

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1091	.0606	-.2176												
70.000	.1538	.0743	-.1367												
60.000	.1901	-.0076	-.1225												
90.000			-.2103	-.4896	-.6808	-.7099	-.7053	-.6147	-.5477	-.5318	-.3678	-.3046	-.2508	-.2358	-.2192
100.000						-.7112	-.7332	-.7104	-.6661	-.5880	-.4414	-.3449	-.2887	-.2769	-.2364
110.000						-.8602	-.8014	-.7404	-.6312	-.5927	-.5595	-.4419	-.3820	-.3594	-.3379
120.000						-.6435								.0000	
130.000						-.6131								-.4673	
140.000						-.5568								-.4410	
150.000						-.4573								-.4031	
160.000						-.3315								-.3678	
170.000						-.3358								-.3357	
180.000						-.3477	-.2856	-.2556	-.2702	-.2807	-.2721	-.2851	-.2898	-.2926	-.2920

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1966	-.1516	-.1892	-.1709	-.1495	-.0743	.0052	.0650	.0987	.1039	.1159	.1088	.0988	.1071	.1305
100.000	-.2196	-.2134	-.2049	-.1952	-.1601	-.1235	-.0511	.0089	.0473	.0569	.0783	.0723	.0744	.0886	.0917
110.000	.0000	-.3203	-.2858	-.2653	-.2090	-.1532	-.0611	.0074	.0447	.0731	.0913	.0960	.1123	.1229	.1268
120.000						-.2036								.1524	
130.000						-.2273								.1492	
140.000						-.2231								.1505	
150.000						-.1847								.1544	
160.000						-.1857								.1608	
170.000						-.1747								.1636	
180.000	-.2907	-.2703	-.2330	-.2410	-.2179	-.1802	-.1596	-.1362	-.1167	-.0064	.0744	.1018	.1349	.1706	.2639

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0108		
70.000							-.0864	-.1537	.0000
60.000							-.1157	-.2146	-.1865
90.000	.1132	.1631	.1257	.0644	.3487	.0000	-.1156	-.1881	-.1764
100.000	.1112	.1287	.1223	.1178	.0595	-.0135			
110.000	.1647	.1917	.1903	.1572	.0501	-.1206			
120.000						-.3066			
130.000						-.0459			
140.000						.2832			
150.000						.4145			
160.000						.3644			
170.000						.3349			
180.000	.1697	.3415	.4086	.4872	.5273	.6292			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB013)

MACH (4) = 1.750 ALPHA (2) = -6.239

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0973	.0500	-.2192												
90.000	.1421	.0703	-.1368												
80.000	.1723	.0266	-.1179												
90.000			-.1917	-.4770	-.6834	-.7126	-.7102	-.6239	-.5587	-.5519	-.3815	-.3135	-.2558	-.2400	-.2215
100.000						-.7153	-.7353	-.7213	-.6962	-.6055	-.4420	-.3489	-.2860	-.2791	-.2400
110.000						-.8520	-.7955	-.7512	-.6602	-.6051	-.5532	-.4067	-.3398	-.3346	-.3044
120.000						-.6658								.0000	
130.000						-.6538								-.4782	
140.000						-.6089								-.4523	
150.000						-.5328								-.4277	
160.000						-.4021								-.3953	
170.000						-.3882								-.3663	
180.000						-.4032	-.3404	-.3056	-.3136	-.3202	-.3101	-.3164	-.3154	-.3240	-.3158

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1944	-.1829	-.1702	-.1574	-.1162	-.0524	.0296	.0594	.0814	.0954	.1052	.0949	.0771	.0812	.1087
100.000	-.2177	-.2038	-.1829	-.1648	-.1337	-.0717	-.0162	.0213	.0455	.0654	.0850	.0780	.0729	.0827	.0914
110.000	.0000	-.2818	-.2524	-.2341	-.1851	-.1227	-.0517	-.0138	.0169	.0528	.0698	.0743	.0806	.0859	.1071
120.000						-.1462								.1238	
130.000						-.1602								.1345	
140.000						-.1837								.1315	
150.000						-.1647								.1377	
160.000						-.1712								.1411	
170.000						-.1689								.1386	
180.000	-.3118	-.2864	-.2544	-.2622	-.2306	-.1712	-.1729	-.1647	-.1219	-.0028	.0696	.0687	.1146	.1428	.2407

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0249		
90.000							-.0937	-.1725	.0000
80.000							-.1171	-.2298	-.2070
90.000	.0908	.1314	.1057	.0596	.3255	.0000	-.1223	-.2124	-.2012
100.000	.0948	.1246	.1124	.1021	.0443	-.0312			
110.000	.1424	.1701	.1724	.1456	.0375	-.1308			
120.000						-.2899			
130.000						-.0218			
140.000						.2747			
150.000						.3913			
160.000						.3362			
170.000						.3113			
180.000	.1421	.3134	.3803	.4381	.4858	.5774			

DATE 26 MAR 76 TABULATED SOURCE DATA - I429/0A03

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = 1.049 ALPHA (3) = -4.193

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
80.000	.5745	.0311	-.2313												
90.000	.1222	.0595	-.1460												
95.000	.1452	.0223	-.1258												
90.000			-.1793	-.4736	-.6882	-.7202	-.7193	-.6389	-.5748	-.5653	-.5850	-.5091	-.2800	-.2386	-.2072
100.000						-.7192	-.7427	-.7313	-.7195	-.6161	-.4191	-.3413	.2901	-.2831	-.2303
110.000						-.8404	-.7954	-.7648	-.6992	-.6186	-.5176	-.3788	-.3214	-.3095	-.2897
120.000						-.6856								.0000	
130.000						-.6987								-.4909	
140.000						-.6613								-.4704	
150.000						-.5899								-.4476	
160.000						-.4769								-.4232	
170.000						-.4455								-.3950	
180.000						-.4581	-.3938	-.3583	-.3805	-.3630	-.3510	-.3539	-.3505	-.3522	-.3392
X/L	.4300	.4600	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1823	-.1747	-.1809	-.1401	-.0743	-.0156	.0241	.0626	.0892	.0847	.0890	.0803	.0305	.0316	.0524
100.000	-.5192	-.2000	-.1823	-.1591	-.0996	-.0457	-.0135	.0211	.0627	.0513	.0759	.0601	.0431	.0528	.0581
110.000	.0000	-.2379	-.2239	-.2016	-.1487	-.0782	-.0561	-.0158	.0099	.0311	.0335	.0360	.0397	.0496	.0618
120.000						-.0968								.0984	
130.000						-.1427								.1066	
140.000						-.1630								.1070	
150.000						-.1484								.1055	
160.000						-.1579								.1092	
170.000						-.1596								.1060	
180.000	-.3289	-.3092	-.2782	-.2682	-.2007	-.1715	-.1560	-.1370	-.0745	-.0033	.0397	.0489	.0657	.1047	.1988
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
80.000							-.0444								
90.000							-.1050	-.1940	.0000						
95.000							-.1253	-.2473	-.2365						
90.000	.0328	.0089	.0980	.0436	.2930	.0000	-.1344	-.2381	-.2346						
100.000	.0319	.0992	.0944	.0848	.0216	-.0521									
110.000	.0980	.1368	.1348	.1291	.0281	-.1327									
120.000						-.2685									
130.000						-.0008									
140.000						.2638									
150.000						.3595									
160.000						.2973									
170.000						.2729									
180.000	.0984	.2796	.3490	.3928	.4354	.5158									

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/0A83

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (4) = 1.051 ALPHA (4) = -1.916

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.0499	.0139	-.2334												
90.000	.0991	.0503	-.1460												
95.000	.1221	.0148	-.1209												
99.000			-.1630	-.4625	-.6860	-.7155	-.7192	-.6452	-.5641	-.5183	-.3786	-.2984	-.2520	-.2284	-.1926
100.000						-.7155	-.7397	-.7302	-.7184	-.5639	-.3836	-.3253	-.2787	-.2615	-.2095
110.000						-.8243	-.7887	-.7672	-.7181	-.5977	-.4279	-.3447	-.2964	-.2793	-.2381
120.000						-.6970								.0000	
130.000						-.7354								-.4532	
140.000						-.7017								-.4695	
150.000						-.6346								-.4556	
160.000						-.5264								-.4344	
170.000						-.4922								-.4105	
180.000						-.3016	-.4445	-.4019	-.3918	-.3916	-.3795	-.3776	-.3670	-.3664	-.3371

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1821	-.1522	-.1386	-.0977	-.0215	.0245	.0563	.0831	.0896	.0808	.0683	.0318	-.0073	-.0139	-.0090
100.000	-.1837	-.1300	-.1603	-.1027	-.0401	-.0004	.0327	.0606	.0820	.0687	.0670	.0380	.0104	.0131	.0080
110.000	.0000	-.2016	-.1755	-.1352	-.0962	-.0475	-.0133	.0212	.0421	.0561	.0430	.0262	.0245	.0258	.0216
120.000						-.0381								.0728	
130.000						-.0925								.0829	
140.000						-.1080								.0833	
150.000						-.1087								.0863	
160.000						-.1241								.0855	
170.000						-.1241								.0768	
180.000	-.3299	-.3085	-.2539	-.2034	-.1622	-.1336	-.1148	-.0673	-.0042	.0310	.0318	.0299	.0518	.0730	.1545

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0532		
90.000							-.1046	-.1982	.0000
95.000							-.1299	-.2505	-.2462
99.000	-.0242	.0269	.0345	.0087	.2551	.0000	-.1417	-.2491	-.2460
100.000	-.0113	.0961	.0636	.0538	-.0124	-.0822			
110.000	.0830	.1061	.1259	.1050	.0115	-.1453			
120.000						-.2597			
130.000						.0115			
140.000						.2516			
150.000						.3213			
160.000						.2559			
170.000						.2253			
180.000	.0655	.2922	.3090	.3558	.3932	.4788			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (4) = 1.052 ALPHA (5) = .142

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0122	-.0076	-.2432												
70.000	.0600	.0223	-.1563												
80.000	.0852	-.0102	-.1268												
90.000			-.1561	-.4503	-.6772	-.7003	-.6945	-.6087	-.5225	-.5161	-.4061	-.3092	-.2447	-.2275	-.2054
100.000						-.7044	-.7225	-.7089	-.6428	-.5232	-.3885	-.3188	-.2572	-.2522	-.2067
110.000						-.8031	-.7719	-.7501	-.7126	-.5318	-.3928	-.3165	-.2804	-.2696	-.2293
120.000						-.7044								.0000	
130.000						-.7678								-.3570	
140.000						-.7460								-.4106	
150.000						-.6814								-.4393	
160.000						-.5921								-.4312	
170.000						-.5382								-.4037	
180.000						-.5460	-.4870	-.4348	-.4281	-.4275	-.4132	-.3961	-.3744	-.3648	-.3390

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1566	-.1526	-.0948	-.0505	.0090	.0452	.0743	.0917	.0923	.0792	.0618	.0145	-.0365	-.0633	-.0664
100.000	-.1735	-.1649	-.1048	-.0570	-.0115	.0245	.0558	.0745	.0889	.0646	.0657	.0203	-.0170	-.0304	-.0481
110.000	.0000	-.1586	-.1267	-.0887	-.0418	.0000	.0341	.0640	.0724	.0724	0576	.0255	.0083	-.0068	-.0266
120.000						-.0099								.0373	
130.000						-.0199								.0496	
140.000						-.0426								.0533	
150.000						-.0486								.0567	
160.000						-.0741								.0584	
170.000						-.0811								.0550	
180.000	-.3091	-.2539	-.2034	-.1612	-.1434	-.0976	-.0516	.0049	.0251	.0373	.0404	.0313	.0317	.0475	.1185

X/L	.7290	.7470	.7670	.7850	.8030	.6290	.8620	.9000	.9400
PHI									
60.000							-.0770		
70.000							-.1259	-.2240	.0000
80.000							-.1506	-.2818	-.2729
90.000	-.0903	-.0331	-.0241	-.0366	.2136	.0000	-.1665	-.2843	-.2677
100.000	-.0805	.0008	.0088	.0117	-.0528	-.1177			
110.000	.0179	.0574	.0849	.0726	-.0114	-.1674			
120.000						-.2559			
130.000						.0226			
140.000						.2323			
150.000						.2727			
160.000						.2147			
170.000						.1873			
180.000	.0140	.2214	.2743	.3116	.3496	.4332			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A23/0A63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (4) = 1.550 ALPHA (6) = 2.400

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0306	-.0469	-.2836												
70.000	.0172	-.0093	-.1922												
80.000	.0355	-.0360	-.1510												
90.000			-.1672	-.4484	-.6650	-.6756	-.6313	-.5416	-.5186	-.5465	-.4650	-.3420	-.2741	-.2429	-.2078
100.000						-.6655	-.6935	-.6223	-.5558	-.5410	-.4444	-.3358	-.2654	-.2609	-.1961
110.000						-.7870	-.7627	-.7309	-.6395	-.5268	-.4192	-.3474	-.2802	-.2685	-.2041
120.000						-.7044								.0000	
130.000						-.7957								-.3103	
140.000						-.7909								-.3335	
150.000						-.7294								-.3500	
160.000						-.6513								-.3692	
170.000						-.6063								-.3718	
180.000						-.6035	-.5468	-.4928	-.4723	-.4659	-.4416	-.4104	-.3664	-.3489	-.3077

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1639	-.1348	-.0862	-.0167	.0239	.0593	.0871	.0989	.0908	.0706	.0478	-.0016	-.0607	-.0955	-.1046
100.000	-.1664	-.1415	-.0921	-.0178	.0230	.0510	.0762	.0842	.0906	.0571	.0539	.0075	-.0391	-.0601	-.0827
110.000	.0000	-.1289	-.0973	-.0308	.0077	.0447	.0719	.0841	.0859	.0756	.0537	.0189	-.0094	-.0285	-.0592
120.000						.0421								.0170	
130.000						.0082								.0345	
140.000						-.0082								.0389	
150.000						-.0175								.0423	
160.000						-.0220								.0448	
170.000						-.0247								.0399	
180.000	-.2682	-.2149	-.1798	-.1350	-.0979	-.0383	.0227	.0440	.0483	.0459	.0448	.0343	.0234	.0354	.1057

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1058		
70.000							-.1535	-.2490	.0000
80.000							-.1777	-.3085	-.3057
90.000	-.1327	-.0825	-.0779	-.0802	.1780	.0000	-.1915	-.3130	-.3028
100.000	-.1196	-.0452	-.0402	-.0205	-.0865	-.1562			
110.000	-.0148	.0180	.0516	.0397	-.0416	-.1974			
120.000						-.2478			
130.000						.0232			
140.000						.1982			
150.000						.2147			
160.000						.1748			
170.000						.1958			
180.000	-.0209	.1931	.2433	.2738	.3014	.3685			

AMES 60-650 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (4) = 1.038 ALPHA (7) = 4.552

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0909	-.1142	-.3158												
70.000	-.0445	-.0549	-.2332												
80.000	-.0355	-.0755	-.1870												
90.000			-.1891	-.4464	-.6554	-.6085	-.5690	-.5628	-.5567	-.5820	-.5200	-.4203	-.3189	-.2895	-.2003
100.000						-.6011	-.6257	-.5948	-.5788	-.5846	-.5260	-.3916	-.3022	-.2994	-.1920
110.000						-.7862	-.7256	-.6568	-.6325	-.6037	-.4974	-.3690	-.3015	-.2932	-.1864
120.000						-.7234								.0000	
130.000						-.8441								-.3151	
140.000						-.8537								-.3249	
150.000						-.7883								-.3146	
160.000						-.7079								-.3159	
170.000						-.6645								-.3281	
180.000						-.6570	-.6048	-.5569	-.5373	-.5188	-.4866	-.4295	-.3817	-.3272	-.2644

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1272	-.0977	-.0838	-.0345	.0105	.0513	.0698	.0809	.0620	.0255	.0149	-.0444	-.1049	-.1278	-.1537
100.000	-.1193	-.1095	-.0840	-.0589	-.0034	.0437	.0620	.0701	.0626	.0216	.0261	-.0276	-.0704	-.0832	-.1419
110.000	.0000	-.0951	-.0823	-.0486	.0017	.0418	.0590	.0646	.0563	.0403	.0246	-.0095	-.0350	-.0541	-.1135
120.000						.0399								.0076	
130.000						.0301								.0200	
140.000						.0280								.0244	
150.000						.0259								.0280	
160.000						.0165								.0304	
170.000						.0059								.0281	
180.000	-.2377	-.1798	-.1655	-.1284	-.0774	-.0023	.0172	.0323	.0285	.0223	.0253	.0157	.0170	.0204	.0576

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1358		
70.000							-.1842	-.2763	.0000
80.000							-.2068	-.3327	-.3450
90.000	-.2125	-.1258	-.1184	-.1327	.1302	.0000	-.2177	-.3430	-.3439
100.000	-.2025	-.0896	-.0988	-.0679	-.1327	-.2148			
110.000	-.0833	-.0248	.0157	-.0080	-.0848	-.2571			
120.000						-.2408			
130.000						-.0079			
140.000						.1679			
150.000						.1785			
160.000						.1593			
170.000						.2146			
180.000	-.0804	.1426	.1983	.2247	.2573	.3030			

DATE 24 MAR 74 TABULATED SOURCE DATA - (AP3/0463

AMES 66-630 PRES.RE VENTING - INTEG. VEHICLE (PEB015)

MACH (A) = 1.043 ALPHA (B) = 8.899

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2810	.3200	.3610	.3190	.3580	.3970	.3750	.3940	.4050	.4310
PHI															
60.000	-.1602	-.1912	-.3329												
70.000	-.1480	-.1218	-.2469												
80.000	-.1302	-.1017	-.1903												
90.000			-.1769	-.4328	-.5238	-.5397	-.5359	-.5124	-.4581	-.4361	-.4275	-.4292	-.3643	-.3173	-.2958
100.000						-.5257	-.5798	-.5736	-.5107	-.4722	-.4564	-.4358	-.3250	-.3147	-.2432
110.000						-.6957	-.6041	-.6292	-.6029	-.5706	-.4945	-.3656	-.2658	-.2833	-.2144
120.000						-.7235								-.2193	
130.000						-.8727								-.2191	
140.000						-.9110								-.2090	
150.000						-.8436								-.2283	
160.000						-.7805								-.2510	
170.000						-.7299								-.2624	
180.000						-.7257	-.6704	-.5879	-.5599	-.5349	-.4660	-.3893	-.3007	-.2818	-.1848

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1424	-.0521	.0029	.0184	.0310	.0292	.0533	.0539	.0335	-.0066	-.0439	-.1047	-.1745	-.2050	-.2149
100.000	-.1366	-.0724	-.0132	.0066	.0267	.0256	.0409	.0407	.0473	-.0174	-.0250	-.0861	-.1472	-.1656	-.2071
110.000	.0000	-.0441	.0012	.0072	.0260	.0352	.0469	.0510	.0437	.0147	-.0207	-.0705	-.1021	-.1342	-.1763
120.000						.0515								-.0654	
130.000						.0597								-.0515	
140.000						.0567								-.0389	
150.000						.0717								-.0351	
160.000						.0623								-.0716	
170.000						.0469								-.0448	
180.000	-.1298	-.0941	-.0538	-.0282	.0030	.0298	.0407	.0435	.0467	.0243	.0164	-.0081	-.0292	-.0376	.0088

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9430
PHI									
60.000							-.2026		
70.000							-.2574	-.3359	.0000
80.000							-.2723	-.3934	-.4044
90.000	-.2878	-.2190	-.1704	-.1592	.1070	.0000	-.2752	-.4060	-.4058
100.000	-.2884	-.1547	-.1113	-.0848	-.1536	-.2485			
110.000	-.1385	-.0661	-.0079	-.0265	-.1125	-.2914			
120.000						-.2370			
130.000						-.2051			
140.000						.1574			
150.000						.2212			
160.000						.2194			
170.000						.3110			
180.000	-.1367	.0790	.1535	.2050	.2597	.2350			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (5) = 1.151 ALPHA (1) = -8.369

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2655	.2147	-.0445												
70.000	.3094	.2267	.0291												
80.000	.3436	.1498	.0444												
90.000			-.0479	-.3061	-.4740	-.5118	-.5072	-.4450	-.4023	-.3141	-.1708	-.1140	-.0675	-.0574	-.0449
100.000						-.5102	-.5343	-.5056	-.4637	-.3841	-.2307	-.1591	-.1033	-.0936	-.0553
110.000						-.6582	-.6036	-.5375	-.4390	-.4051	-.3595	-.2436	-.1740	-.1722	-.1586
120.000						-.4427								.0000	
130.000						-.4042								-.2807	
140.000						-.3535								-.2574	
150.000						-.2365								-.2191	
160.000						-.1289								-.1853	
170.000						-.1335								-.1539	
180.000						-.1451	-.0917	-.0755	-.0965	-.1044	-.0985	-.1083	-.1099	-.1123	-.1056

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0169	-.0240	-.0265	-.0247	-.0108	.0508	.0978	.1576	.1869	.2090	.2213	.2177	.2119	.2235	.2548
100.000	-.0385	-.0419	-.0442	-.0430	-.0180	-.0083	.0407	.0882	.1332	.1519	.1778	.1824	.1826	.2010	.2163
110.000	.0000	-.1434	-.1184	-.0936	-.0554	-.0136	.0388	.0952	.1401	.1808	.1999	.2120	.2274	.2392	.2524
120.000						-.0619								.2618	
130.000						-.0714								.2609	
140.000						-.0546								.2624	
150.000						-.0151								.2656	
160.000						-.0152								.2743	
170.000						-.0046								.2734	
180.000	-.1082	-.0858	-.0818	-.0699	-.0394	-.0033	.0024	.0073	.0216	.0573	.1182	.1783	.2409	.2784	.3822

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1257		
70.000							.0554	-.0124	.0000
80.000							.0227	-.0716	-.0427
90.000	.2409	.2850	.2631	.2000	.4559	.0000	.0233	-.0444	-.0316
100.000	.2422	.2570	.2505	.2536	.2049	.1267			
110.000	.2908	.3177	.3177	.2879	.1817	.0201			
120.000						-.1540			
130.000						.0974			
140.000						.4089			
150.000						.5357			
160.000						.4866			
170.000						.4540			
180.000	.2962	.4596	.5285	.5862	.6392	.7233			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REF0157)

MACH (5/ = 1.150 ALPHA (2) = -6.238

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2500	.2026	-.0322												
70.000	.2968	.2192	.0224												
80.000	.3253	.1683	.0390												
90.000			-.0291	-.3022	-.4908	-.5201	-.5147	-.4551	-.4095	-.3135	-.1870	-.1211	-.0734	-.0620	-.0433
100.000						-.5208	-.5382	-.5252	-.4941	-.3855	-.2275	-.1531	-.1026	-.0990	-.0606
110.000						-.6551	-.5984	-.5494	-.4602	-.4104	-.3502	-.2104	-.1550	-.1541	-.1281
120.000						-.4631								.0000	
130.000						-.4531								-.2947	
140.000						-.4080								-.2692	
150.000						-.3250								-.2460	
160.000						-.1976								-.2178	
170.000						-.1915								-.1879	
180.000						-.2038	-.1469	-.1166	-.1312	-.1385	-.1327	-.1362	-.1362	-.1437	-.1318

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0190	-.0092	-.0106	-.0095	.0390	.0710	.1338	.1716	.1961	.2084	.2137	.2025	.1964	.1985	.2281
100.000	-.0394	-.0327	-.0278	-.0164	.0249	.0383	.0931	.1267	.1617	.1661	.1893	.1848	.1832	.1959	.2084
110.000	.0000	-.1012	-.0917	-.0623	-.0400	.0149	.0730	.1092	.1474	.1697	.1855	.1902	.2018	.2121	.2288
120.000						-.0026								.2423	
130.000						-.0374								.2478	
140.000						-.0327								.2464	
150.000						-.0085								.2494	
160.000						-.0048								.2539	
170.000						-.0058								.2496	
180.000	-.1190	-.0988	-.0763	-.0793	-.0412	-.0035	-.0107	-.0066	.0290	.0853	.1372	.1686	.2117	.2448	.3545

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1142		
70.000							.0495	-.0268	.0000
80.000							.0245	-.0825	-.0617
90.000	.2198	.2637	.2332	.1904	.4316	.0000	.0203	-.0625	-.0559
100.000	.2205	.2488	.2352	.2342	.1818	.1093			
110.000	.2688	.2967	.2967	.2692	.1649	.0101			
120.000						-.1371			
130.000						.1184			
140.000						.4009			
150.000						.5175			
160.000						.4608			
170.000						.4382			
180.000	.2673	.4335	.4975	.5550	.6041	.6777			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (5) = 1.150 ALPHA (3) = -4.094

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2324	.1857	-.0551												
70.000	.2778	.2092	.0184												
80.000	.3019	.1764	.0352												
90.000			-.0204	-.2952	-.4882	-.5214	-.5225	-.4656	-.4142	-.3078	-.1681	-.0990	-.0494	-.0365	-.0145
100.000						-.5212	-.5439	-.5325	-.5145	-.3609	-.1993	-.1366	-.0836	-.0814	-.0366
110.000						-.6414	-.6000	-.5652	-.4883	-.4195	-.2869	-.1661	-.1220	-.1161	-.0850
120.000						-.4815								.0000	
130.000						-.4861								-.2962	
140.000						-.4478								-.2758	
150.000						-.3752								-.2563	
160.000						-.2492								-.2312	
170.000						-.2386								-.2031	
180.000						-.2507	-.1963	-.1644	-.1708	-.1738	-.1590	-.1646	-.1595	-.1614	-.1429

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0058	.0089	.0035	.0145	.0709	.1317	.1576	.1856	.2079	.1997	.1934	.1679	.1404	.1415	.1655
100.000	-.0242	-.0250	-.0179	-.0009	.0558	.0977	.1199	.1585	.1845	.1729	.1786	.1618	.1447	.1602	.1665
110.000	.0000	-.0630	-.0531	-.0313	.0142	.0581	.0828	.1271	.1521	.1585	.1549	.1451	.1526	.1542	.1746
120.000						.0280								.1970	
130.000						.0071								.2006	
140.000						.0065								.1970	
150.000						.0386								.1947	
160.000						.0256								.1970	
170.000						.0247								.1888	
180.000	-.1367	-.1156	-.0823	-.0556	.0041	.0245	.0298	.0364	.0753	.1125	.1321	.1422	.1620	.2031	.3005

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0928		
70.000							.0379	-.0511	.0000
80.000							.0130	-.1002	-.0880
90.000	.1573	.2106	.2160	.1773	.3983	.0000	.0031	-.0940	-.0776
100.000	.1594	.2237	.2245	.2155	.1585	.0872			
110.000	.2208	.2624	.2739	.2500	.1544	.0002			
120.000						-.1270			
130.000						.1301			
140.000						.3841			
150.000						.4817			
160.000						.4182			
170.000						.4024			
180.000	.2176	.3981	.4656	.5140	.5538	.6227			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB015)

MACH (5) = 1.151 ALPHA (4) = -1.957

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2104	.1649	-.0775												
70.000	.2539	.1947	.0969												
80.000	.2814	.1560	.0262												
90.000			-.0146	-.2933	-.4944	-.5227	-.5184	-.4596	-.3677	-.2602	-.1515	-.0899	-.0527	-.0244	-.0162
100.000						-.5208	-.5373	-.5266	-.5036	-.2796	-.1585	-.1154	-.0761	-.0638	-.0277
110.000						-.6312	-.5871	-.5615	-.4995	-.3554	-.1975	-.1405	-.1005	-.0867	-.0621
120.000						-.5004								.0000	
130.000						-.5282								-.2137	
140.000						-.4956								-.2712	
150.000						-.4286								-.2641	
160.000						-.3109								-.2461	
170.000						-.2904								-.2220	
180.000						-.3032	-.2384	-.2000	-.2010	-.2030	-.1907	-.1952	-.1837	-.1814	-.1444

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0008	.0077	.0262	.0518	.0944	.1354	.1738	.1926	.2004	.1836	.1810	.1457	.1059	.0925	.0999
100.000	-.0103	-.0034	.0224	.0436	.0796	.1190	.1442	.1720	.1815	.1704	.1798	.1459	.1197	.1189	.1135
110.000	.0000	-.0422	-.0213	.0102	.0370	.0728	.1083	.1385	.1499	.1560	.1539	.1329	.1254	.1198	.1225
120.000						.0784								.1628	
130.000						.0296								.1707	
140.000						.0185								.1632	
150.000						.0378								.1675	
160.000						.0301								.1657	
170.000						.0364								.159*	
180.000	-.1265	-.0941	-.0378	.0088	.0224	.0415	.0401	.0530	.0860	.1178	.1357	.1400	.1425	.1552	.2440

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0773		
70.000							.0276	-.0593	.0000
80.000							.0044	-.1120	-.1017
90.000	.0833	.1429	.1529	.1303	.3540	.0000	-.0101	-.1075	-.1021
100.000	.0817	.1627	.1625	.1705	.1086	.0500			
110.000	.1654	.2119	.2350	.2147	.1252	-.0127			
120.000						-.1260			
130.000						.1315			
140.000						.3657			
150.000						.4467			
160.000						.3402			
170.000						.3515			
180.000	.1670	.3540	.4199	.4660	.5088	.5827			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (5) = 1.147 ALPHA (5) = .241

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1710	.1446	-.0929												
70.000	.2222	.1751	-.0092												
80.000	.2502	.1323	.0178												
90.000			-.0143	-.2930	-.5027	-.5259	-.5066	-.4200	-.3242	-.2780	-.1529	-.0722	-.0865	-.1012	-.0663
100.000						-.5232	-.5298	-.5173	-.4264	-.2613	-.1445	-.0859	-.1015	-.1189	-.0613
110.000						-.6243	-.5784	-.5549	-.5034	-.2776	-.1665	-.1169	-.1238	-.1325	-.0774
120.000						-.5286								.0000	
130.000						-.5833								-.1972	
140.000						-.5612								-.2608	
150.000						-.4940								-.2842	
160.000						-.3841								-.2736	
170.000						-.3490								-.2420	
180.000						-.3579	-.2848	-.2420	-.2343	-.2356	-.2172	-.2185	-.2243	-.2126	-.1701

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0119	.0171	.0374	.0686	.0818	.1463	.1612	.1665	.1737	.1588	.1665	.1251	.0746	.0522	.0368
100.000	-.0191	.0199	.0226	.0556	.0832	.1249	.1315	.1480	.1705	.1406	.1642	.1267	.0910	.0820	.0614
110.000	.0000	.0143	.0308	.0433	.0789	.1228	.1062	.1321	.1442	.1485	.1554	.1317	.1138	.1020	.0788
120.000						.1223								.1402	
130.000						.0599								.1465	
140.000						.0208								.1476	
150.000						.0212								.1485	
160.000						.0029								.1479	
170.000						-.0004								.1436	
180.000	-.1021	-.0421	.0093	.0198	.0372	-.0076	-.0022	.0176	.0558	.0933	.1356	.1247	.1267	.1399	.2304

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0550		
70.000							.0103	-.0835	.0000
80.000							-.0154	-.1354	-.1263
90.000	.0395	.0874	.1007	.0803	.3084	.0000	-.0321	-.1393	-.1219
100.000	.0399	.1211	.1253	.1269	.0587	.0094			
110.000	.1362	.1769	.2009	.1795	.1021	-.0419			
120.000						-.1231			
130.000						.1415			
140.000						.3475			
150.000						.3945			
160.000						.3368			
170.000						.3025			
180.000	.1350	.3299	.3834	.4135	.4616	.5443			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB015)

MACH (5) = 1.149 ALPHA (6) = 2.351

SECTION (1)OFB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4550	.4310
PHI															
60.000	.1458	.1251	-.0779												
70.000	.1978	.1496	-.0101												
80.000	.2233	.1201	.0302												
90.000			-.0007	-.2699	-.4755	-.4896	-.4318	-.3407	-.3116	-.3462	-.2371	-.0959	-.0649	-.0452	-.0231
100.000						-.4860	-.4967	-.4199	-.3526	-.3248	-.1984	-.0947	-.0603	-.0656	-.0309
110.000						-.5976	-.5498	-.5320	-.4329	-.2970	-.1970	-.1062	-.0660	-.0777	-.0139
120.000						-.5074								.0000	
130.000						-.5898								-.0957	
140.000						-.5757								-.1166	
150.000						-.5113								-.1335	
160.000						-.4200								-.1688	
170.000						-.3787								-.1776	
180.000						-.3894	-.3230	-.2801	-.2753	-.2704	-.2385	-.1955	-.1627	-.1594	-.0945
X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0252	.0125	.0483	.0828	.1480	.1623	.1566	.1723	.1800	.1613	.1506	.0995	.0475	.0295	.0050
100.000	.0170	.0147	.0389	.0927	.1434	.1528	.1416	.1561	.1788	.1468	.1511	.1045	.0639	.0636	.0195
110.000	.0000	.0216	.0442	.0933	.1741	.1418	.1275	.1568	.1643	.1668	.1441	.1195	.0998	.0896	.0416
120.000						.1434								.1345	
130.000						.0720								.1436	
140.000						.0552								.1458	
150.000						.0609								.1489	
160.000						.0562								.1497	
170.000						.0566								.1434	
180.000	-.0460	-.0116	.0049	.0685	.0731	.0459	.0552	.1061	.0945	.1229	.1254	.1182	.1245	.1361	.1868
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
60.000							.0259								
70.000							-.0170	-.1036	.0000						
80.000							-.0403	-.1573	-.1505						
90.000	-.0275	.0428	.0469	.0421	.2801	.0000	-.0533	-.1648	-.1464						
100.000	-.0244	.0725	.0503	.0999	.0350	-.0271									
110.000	.0783	.1337	.1657	.1203	.0755	-.0716									
120.000						-.1216									
130.000						.1364									
140.000						.3180									
150.000						.3433									
160.000						.2949									
170.000						.2816									
180.000	.0000	.2932	.3497	.3873	.4191	.4978									

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/0463

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8015)

MACH (9) = 1.152 ALPHA (7) = 4.498

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
65.000	.1146	.0836	-.1422												
70.000	.1625	.1226	-.0480												
80.000	.1778	.1039	-.0039												
90.000			-.0101	-.2653	-.4250	-.3782	-.3466	-.3302	-.3307	-.3327	-.2683	-.1498	-.0789	-.0489	-.0184
100.000						-.3741	-.3859	-.3654	-.3468	-.3539	-.2530	-.1290	-.0731	-.0634	-.0094
110.000						-.5664	-.4626	-.4219	-.3982	-.3532	-.2327	-.1180	-.0690	-.0643	.0016
120.000						-.5139								.0000	
130.000						-.6138								-.0763	
140.000						-.6207								-.0981	
150.000						-.5618								-.1030	
160.000						-.4860								-.1057	
170.000						-.4388								-.1062	
180.000						-.4351	-.3722	-.3211	-.3071	-.2941	-.2521	-.1812	-.1405	-.1053	-.0414

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0376	.0501	.0668	.0997	.1305	.1497	.1707	.1726	.1792	.1448	.1259	.0811	.0273	-.0073	-.0359
100.000	.0271	.0429	.0659	.0951	.1184	.1430	.1639	.1664	.1757	.1425	.1355	.0979	.0537	.0328	-.0199
110.000	.0000	.0629	.0899	.0908	.1213	.1264	.1539	.1569	.1601	.1589	.1337	.1043	.0808	.0553	.0049
120.000						.1332								.1036	
130.000						.1086								.1198	
140.000						.0961								.1204	
150.000						.1059								.1241	
160.000						.1004								.1282	
170.000						.1033								.1238	
180.000	-.0188	.0241	.0428	.0588	.0666	.1100	.1099	.1204	.1282	.1277	.1255	.1148	.1120	.1145	.1668

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0061		
70.000							-.0451	-.1267	.0000
80.000							-.0680	-.1764	-.1734
90.000	-.0713	.0086	.0129	.0078	.2514	.0000	-.0832	-.1887	-.1704
100.000	-.0730	.0355	.0304	.0832	.0052	-.0747			
110.000	.0418	.0.94	.1424	.1220	.0469	-.1093			
120.000						-.1088			
130.000						.1344			
140.000						.2950			
150.000						.3047			
160.000						.2816			
170.000						.3201			
180.000	.0443	.2660	.3209	.3545	.3806	.4198			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (FEB015)

MACH (S) = 1.143 ALPHA (A) = 6.634

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2920	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0366	.0344	-.1441												
70.000	.0931	.0856	-.0634												
80.000	.0917	.0797	-.0177												
90.000			-.0136	-.2167	-.3832	-.4247	-.4109	-.3490	-.2883	-.2990	-.2502	-.1982	-.1062	-.0746	-.1268
100.000						-.4245	-.4466	-.4259	-.3728	-.3380	-.2572	-.1695	-.0909	-.0922	-.1149
110.000						-.5005	-.4823	-.4730	-.4484	-.4173	-.2533	-.1295	-.0847	-.0749	-.0971
120.000						-.5155								.0000	
130.000						-.6527								-.0484	
140.000						-.6810								-.0591	
150.000						-.6168								-.0728	
160.000						-.3549								-.0868	
170.000						-.5037								-.1309	
180.000						-.5125	-.4209	-.3669	-.3440	-.3233	-.2574	-.1700	-.1121	-.1622	-.1130

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0918	.0016	.0448	.0771	.1271	.1411	.1580	.1546	.1270	.1039	.0699	.0292	-.0183	-.0420	-.0781
100.000	-.0920	.0034	.0499	.0898	.1236	.1322	.1414	.1290	.1349	.1002	.0676	.0446	.0073	-.0034	-.0711
110.000	.0000	.0192	.0623	.0948	.1125	.1300	.1440	.1254	.1254	.1245	.0871	.0641	.0398	.0246	-.0400
120.000						.1177								.0798	
130.000						.1193								.0928	
140.000						.1157								.0966	
150.000						.1392								.0982	
160.000						.1254								.0985	
170.000						.1260								.0958	
180.000	-.0215	.0014	.0303	.0585	.0710	.1195	.1193	.0864	.1068	.1226	.1055	.0937	.0894	.0876	.1332

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0316		
70.000							-.0798	-.1554	.0000
80.000							-.1016	-.2101	-.2163
90.000	-.1198	-.0598	-.0274	-.0061	.2199	.0000	-.1177	-.2284	-.2101
100.000	-.1157	-.0145	.0339	.0579	-.0052	-.1050			
110.000	-.0083	.0594	.1345	.1673	.0263	-.1444			
120.000						-.0683			
130.000						.1167			
140.000						.2752			
150.000						.3050			
160.000						.2911			
170.000						.3617			
180.000	-.0049	.2209	.2798	.3149	.3423	.3646			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (9) = 1.190 ALPHA (9) = 8.750

SECTION (1)OGB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
60.000	.0169	.0205	-.1096												
70.000	.0374	.0461	-.0549												
80.000	.0674	.0719	-.0100												
90.000			-.0032	-.1308	-.3518	-.4049	-.3559	-.3027	-.2196	-.2255	-.2225	-.2145	-.1539	-.1169	-.0854
100.000						-.3988	-.4158	-.3873	-.2774	-.2485	-.2424	-.2161	-.1202	-.1147	-.0662
110.000						-.4710	-.4512	-.4487	-.3773	-.3349	-.2538	-.1436	-.0929	-.0977	-.0934
120.000						-.4360								.0000	
130.000						-.6105								-.0596	
140.000						-.6730								-.0302	
150.000						-.6265								-.0232	
160.000						-.5656								-.0346	
170.000						-.5141								-.0511	
180.000						-.5134	-.4498	-.3828	-.3461	-.3043	-.2353	-.1712	-.1216	-.0661	-.0429

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0195	.0294	.0742	.0921	.1012	.1215	.1262	.1251	.1203	.0835	.0739	.0192	-.0470	-.0770	-.1009
100.000	-.0120	.0321	.0651	.0811	.1039	.1157	.1219	.1101	.1269	.0730	.0778	.0314	-.0151	-.0366	-.0969
110.000	.0000	.0563	.0684	.0773	.0941	.1173	.1195	.1199	.1224	.1078	.0624	.0519	.0196	-.0106	-.0713
120.000						.1251								.0544	
130.000						.1135								.0637	
140.000						.0997								.0755	
150.000						.1242								.0781	
160.000						.1129								.0756	
170.000						.0942								.0756	
180.000	.0819	.0474	.0478	.0399	.0590	.0721	.1001	.1212	.1192	.1228	.1206	.0988	.0799	.0719	.1000

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9030	.9400
PHI									
60.000							-.0502		
70.000							-.0968	-.1719	.0000
80.000							-.1.11	-.2262	-.2457
90.000	-.1523	-.0930	-.0674	-.0514	.1955	.0000	-.1208	-.2448	-.2334
100.000	-.1518	-.0583	-.0400	.0248	-.0332	-.1257			
110.000	-.0480	.0348	.1002	.0868	.0165	-.1520			
120.000						-.0808			
130.000						.1405			
140.000						.2770			
150.000						.3489			
160.000						.3332			
170.000						.4256			
180.000	-.0448	.1735	.2399	.2922	.3530	.3425			

AMES 66-65 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (0) = 1.250 ALPHA (1) = -0.401

SECTION (1)068, FUSELAGE DEFLECTION TABLE OF

Z/L	.1000	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3760	.3940	.4050	.4310
PHI															
0. ,0000	.2729	.2443	.0957												
5.0000	.3101	.2613	.0000												
10.0000	.3574	.2153	.0154												
15. ,000			.2062	-.2209	-.4025	-.4560	-.4347	-.3883	-.3612	-.4130	-.2673	-.1942	-.1462	-.1322	-.1257
20. ,000						-.4767	-.4565	-.4524	-.4385	-.3374	-.3521	-.2445	-.1747	-.1711	-.1331
25. ,000						-.5674	-.5259	-.4843	-.4247	-.3726	-.3558	-.3214	-.2674	.2562	-.1342
30. ,000						-.6142								.0000	
35. ,000						-.6145								-.2645	
40. ,000						-.5749								-.2432	
45. ,000						-.4741								-.2042	
50. ,000						-.2135								-.1772	
55. ,000						-.1427								-.1537	
60. ,000						-.1645	-.1231	-.0955	-.0364	-.1028	-.0941	-.1063	-.1123	-.1174	-.1220

Z/L	.4900	.4680	.4060	.5050	.5240	.5460	.5610	.5800	.5970	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
0. ,0000	-.0960	-.0945	-.0852	-.0836	-.0792	-.0814	-.0664	-.0567	-.0212	.0001	.0062	-.0130	-.0431	-.0575	-.0195
5.0000	-.1176	-.1153	-.1032	-.0971	-.0896	-.0943	-.0942	-.0852	-.0699	-.0874	-.0431	-.0625	-.0764	-.0601	-.0555
10. ,000	-.0944	-.2952	-.2702	-.1923	-.1647	-.1413	-.1226	-.1057	-.0857	-.0574	-.0416	-.0415	-.0444	-.0419	-.0263
15. ,000						-.1416								-.0544	
20. ,000						-.1622								-.0414	
25. ,000						-.1675								-.0445	
30. ,000						-.1435								-.0742	
35. ,000						-.1437								-.0627	
40. ,000						-.1233								-.0562	
60. ,000	-.1359	-.1356	-.1151	-.1192	-.1145	-.1149	-.1167	-.1207	-.1060	-.0916	-.0606	-.0604	-.0460	-.0744	.0621

Z/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9490
PHI									
0. ,000							.1557		
5.000							.0940	.0267	.0000
10. ,000							.0659	-.0279	-.0002
15. ,000	.0090	.0081	.1521	.1187	.3769	.0000	.0634	-.0054	.0164
20. ,000	.0033	.0821	.1266	.1646	.1405	.1052			
25. ,000	.0239	.0970	.1660	.1445	.0763	-.0228			
30. ,000						-.1588			
35. ,000						.1278			
40. ,000						.4583			
45. ,000						.5931			
50. ,000						.4939			
55. ,000						.3916			
60. ,000	.0841	.1783	.4190	.4939	.5431	.6685			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (6) = 1.251 ALPHA (2) = -6.325

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2410	.2221	-.0060												
70.000	.2797	.2454	.0706												
80.000	.3082	.2123	.0919												
90.000			.0331	-.2155	-.3961	-.4437	-.4433	-.4010	-.3780	-.4309	-.2953	-.2081	-.1657	-.1526	-.1453
100.000						-.4444	-.4627	-.4583	-.4571	-.4265	-.3432	-.2489	-.1879	-.1307	-.1187
110.000						-.5575	-.5226	-.4912	-.4498	-.3891	-.3669	-.3206	-.2506	-.2342	-.1927
120.000						-.4083								.0000	
130.000						-.4103								-.2751	
140.000						-.3783								-.2600	
150.000						-.3325								-.2350	
160.000						-.2758								-.2107	
170.000						-.2354								-.1831	
180.000						-.2172	-.1954	-.1401	-.1403	-.1427	-.1317	-.1402	-.1456	-.1501	-.1534

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6900	.7100
PHI															
90.000	-.1162	-.1097	-.1001	-.0996	-.0964	-.1008	-.0929	-.0710	-.0407	-.0003	.0011	-.0166	-.0407	-.0355	-.0230
100.000	-.1347	-.1255	-.1156	-.1081	-.1041	-.1076	-.1064	-.1004	-.0703	-.0574	-.0331	-.0452	-.0613	-.0532	-.0437
110.000	.0000	-.1882	-.1872	-.1821	-.1695	-.1616	-.1438	-.1226	-.0980	-.0711	-.0528	-.0512	-.0539	-.0518	-.0391
120.000						-.1485								-.0591	
130.000						-.1672								-.0807	
140.000						-.1637								-.0280	
150.000						-.1434								-.0863	
160.000						-.1566								-.0745	
170.000						-.1438								-.0755	
180.000	-.1627	-.1616	-.1385	-.1434	-.1354	-.1302	-.1387	-.1332	-.1226	-.1115	-.0892	-.0845	-.0690	.0674	.0305

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.940
PHI									
60.000							.131		
70.000							.0764	.0043	.0000
80.000							.0542	-.0411	-.0280
90.000	-.0037	.0543	.1082	.0899	.3260	.0000	.0379	-.0324	-.0183
100.000	-.0073	.0626	.0997	.1346	.1084	.0789			
110.000	.0370	.1093	.1595	.1368	.0756	-.0265			
120.000						-.1307			
130.000						.1530			
140.000						.4463			
150.000						.5490			
160.000						.4479			
170.000						.3641			
180.000	.0399	.2054	.3659	.4343	.4905	.5937			

DATE 24 MAR 74 TABULATED SOURCE DATA - [A23/DA63 (REB015)

AMES 66-63S PRESSURE VENTING - INTEG. VEHICLE

MACH (6) = 1.251 ALPHA (3) = -4.148

SECTION (1)=FB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2026	.1844	-.0377												
70.000	.2427	.2213	.0420												
80.000	.2727	.1868	.0702												
90.000			.0276	-.2109	-.4118	-.4484	-.1495	-.4180	-.3981	-.4502	-.3318	-.2327	-.1856	-.1632	-.1583
100.000						-.4474	-.4670	-.4651	-.4670	-.4526	-.3703	-.2622	-.2016	-.1920	-.1627
110.000						-.5471	-.3160	-.4978	-.4687	-.4156	-.3819	-.3278	-.2477	-.2239	-.1883
120.000						-.4258								.0000	
130.000						-.4453								-.2903	
140.000						-.4238								-.2755	
150.000						-.3775								-.2609	
160.000						-.3390								-.2377	
170.000						-.2913								-.2142	
180.000						-.2655	-.2223	-.1911	-.1829	-.1839	-.1736	-.1820	-.1769	-.1828	-.1813

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1336	-.1191	-.1027	-.0990	-.0876	-.1051	-.0990	-.0806	-.0377	.0013	.0147	-.0034	-.0223	-.0247	-.0242
100.000	-.1486	-.1383	-.1221	-.1094	-.1019	-.1083	-.1110	-.0962	-.0592	-.0388	-.0086	-.0176	-.0327	-.0273	-.0311
110.000	.0000	-.1734	-.1640	-.1582	-.1437	-.1488	-.1339	-.1268	-.0974	-.0632	-.0425	-.0410	-.0431	-.0437	-.0318
120.000						-.1361								-.0337	
130.000						-.1635								-.0565	
140.000						-.1630								-.0749	
150.000						-.1445								-.0834	
160.000						-.1580								-.0813	
170.000						-.1563								-.0872	
180.000	-.1852	-.1799	-.1569	-.1589	-.1525	-.1502	-.1549	-.1481	-.1337	-.1264	-.1019	-.1018	-.0924	-.0861	.0090

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI							.1040		
60.000							.0566	-.0213	.0000
70.000							.0300	-.0678	-.0601
80.000							.0093	-.0728	-.0565
90.000	-.0227	.0379	.0771	.0624	.2890	.0000			
100.000	-.0301	.0542	.0682	.1078	.0787	.0321			
110.000	.0189	.0998	.1422	.1296	.0542	-.0641			
120.000						-.1198			
130.000						.1613			
140.000						.4218			
150.000						.4922			
160.000						.3983			
170.000						.3281			
180.000	.0212	.2180	.3370	.3920	.4316	.5081			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (PE8015)

MACH (8) = 1.251 ALPHA (4) = -1.947

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
80.000	.1711	.1591	-.0878												
70.000	.2096	.1922	.0220												
80.000	.2346	.1682	.0588												
90.000			.0235	-.2235	-.4117	-.4655	-.4696	-.4355	-.4120	-.4314	-.3460	-.2556	-.2005	-.1842	-.1757
100.000						-.4638	-.4840	-.4807	-.4879	-.4655	-.3715	-.2638	-.2068	-.2057	-.1774
110.000						-.5520	-.5268	-.5149	-.4959	-.4514	-.3 74	-.3070	-.2227	-.2134	-.1867
120.000						-.4484								.0007	
130.000						-.4831								-.3065	
140.000						-.4662								-.3	
150.000						-.4237								-.2	
160.000						-.3844								-.	
170.000						-.3372								-.2434	
180.000						.3 7	-.2693	-.2377	.2313	.227	-.2147	.2184	.2167	.2150	.2139

X/L	.4500	.4680	.4880	.5060	.5240	.5420	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.1471	-.1313	-.1089	-.0998	-.0975	-.1004	-.0960	-.0654	-.0216	.0136	.0235	.0033	-.0211	-.0 21	-.0275
100.000	-.1672	-.1594	-.1380	-.1177	-.1053	-.1 94	-.1051	-.0921	-.0453	-.0234	.0102	-.0047	-.0132	-.0 124	-.0242
110.000	-.0000	-.1635	-.1530	-.1399	-.1288	-.1244	-.1173	-.1018	-.0761	-.0447	-.0284	-.0246	-.0 21	-.0296	-.0246
120.000						-.1145								-.0121	
130.000						-.1459								-.0219	
140.000						-.1537								-.0 367	
150.000						-.1372								-.0504	
160.000						-.1493								-.0534	
170.000						-.1535								-.0	
180.000	-.2142	-.2033	-.1853	-.1838	-.1751	.1568	-.1533	-.1428	-.1313	-.1232	-.0	-.0	-.0	-.0	.0177

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9040	.9410
PHI									
60.000							.0622		
70.000							.0135	-.0515	.0000
80.000							-.0054	-.1056	-.0954
90.000	-.0489	.0074	.0490	.0247	.2535	.0000	-.0308	-.1148	-.0934
100.000	-.0436	.0345	.0375	.0810	.0430	-.0960			
110.000	.0053	.0789	.1346	.1241	.0536	-.0778			
120.000						-.1148			
130.000						.1683			
140.000						.3910			
150.000						.4266			
160.000						.3455			
170.000						.2858			
180.000	.0102	.1914	.3071	.3502	.3830	.4362			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (6) = 1.250 ALPHA (5) = .116

SECTION (1:648, FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1370	.1268	-.0724												
70.000	.1768	.1672	.0128												
80.000	.1925	.1341	.0538												
90.000			.0481	-.2140	-.4270	-.4796	-.4863	-.4589	-.4421	-.4551	-.3563	-.2803	-.2148	-.1954	-.1782
100.000						-.4794	-.5000	-.5019	-.5092	-.5132	-.4164	-.2754	-.2148	-.2037	-.1760
110.000						-.5495	-.5342	-.5315	-.5205	-.4989	-.4438	-.3072	-.2256	-.2106	-.1838
120.000						-.4636								.0000	
130.000						-.5139								-.3378	
140.000						-.5027								-.3290	
150.000						-.4571								-.3206	
160.000						-.4246								-.3061	
170.000						-.3759								-.2859	
180.000						-.3503	-.3142	-.2795	-.2706	-.2677	-.2582	-.2612	-.2583	-.2588	-.2453

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1460	-.1256	-.1003	-.0909	-.0885	-.0960	-.0797	-.0583	-.0139	.0255	.0217	-.0039	-.0257	-.0274	-.0444
100.000	-.1590	-.1460	-.1215	-.1039	-.0925	-.0957	-.0911	-.0726	-.0282	-.0053	.0184	-.0056	-.0183	-.0098	-.0355
110.000	.0000	-.1557	-.1381	-.1233	-.1102	-.1088	-.0977	-.0870	-.0576	-.0226	-.0092	-.0172	-.0161	-.0132	-.0252
120.000						-.0904								-.0018	
130.000						-.1145								-.0037	
140.000						-.1263								-.0108	
150.000						-.1177								-.0207	
160.000						-.1363								-.0269	
170.000						-.1418								-.0367	
180.000	-.2384	-.2252	-.2051	-.2051	-.1911	-.1652	-.1549	-.1338	-.1213	-.1055	-.0862	-.0791	-.0600	-.0481	.0390

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0280		
70.000							-.0103	-.0752	.0000
80.000							-.0343	-.1336	-.1295
90.000	-.0829	-.0042	.0151	-.0068	.2141	.0000	-.0545	-.1474	-.1305
100.000	-.0850	-.0081	.0048	.0582	.0130	-.0482			
110.000	-.0140	.0435	.1222	.1209	.0616	-.0784			
120.000						-.1115			
130.000						.1696			
140.000						.3594			
150.000						.3488			
160.000						.2962			
170.000						.2288			
180.000	.0070	.1715	.2722	.3064	.3353	.4050			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB015)

MACH (6) = 1.250 ALPHA (6) = 2.306

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1157	.0960	-.0869												
70.000	.1500	.1332	-.0069												
80.000	.1555	.1409	.0404												
90.000			.0455	-.2122	-.4422	-.4926	-.4931	-.4725	-.4525	-.4453	-.3620	-.2957	-.2215	-.1995	-.1750
100.000						-.4921	-.5085	-.5119	-.5243	-.5335	-.4115	-.2766	-.2169	-.2099	-.1 [illegible]
110.000						-.5483	-.5373	-.5385	-.5347	-.5347	-.4750	-.2932	-.2244	-.2130	-.1 [illegible]
120.000						-.4753								.0000	
130.000						-.5411								-.3541	
140.000						-.5426								-.3 [illegible]	
150.000						-.4052								-.3 [illegible]	
160.000						-.4623								-.3 [illegible]	
170.000						-.4160								-.3194	
180.000						-.3917	-.3494	-.3144	-.3064	-.3041	-.2437	.2967	.2321	-.2 [illegible]	.2823

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6560	.6750	.6940	.7130
PHI															
90.000	-.1355	-.1107	-.0867	-.0874	-.0876	-.0944	-.0835	-.0439	.0056	.0252	.0167	-.0 [illegible]	-.0438	.0511	-.0625
100.000	-.1542	-.1344	-.1068	-.0964	-.0865	-.0925	-.0695	-.0654	-.0032	.0015	.0193	-.0 [illegible]	-.0296	.0226	-.0546
110.000	.0400	-.1487	-.1231	-.1088	-.0964	-.0925	.0819	-.0592	-.0 [illegible]	.0013	.0960	-.0 [illegible]	.0164	-.0384	-.0 [illegible]
120.000						-.0932								.0024	
130.000						-.0817								.0096	
140.000						-.0932								.0092	
150.000						-.0852								.0047	
160.000						-.1046								-.0011	
170.000						-.1142								-.0117	
180.000	-.2607	-.2377	-.2173	-.2067	-.1703	-.1384	-.1251	-.1102	-.1013	-.0927	-.0693	-.0611	.0454	.0215	.0656

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0041		
70.000							-.0445	-.0987	.0000
80.000							-.0637	-.1510	-.1580
90.000	-.1134	-.0388	-.0194	-.0286	.1761	.9000	.0760	-.1671	-.1582
100.000	-.1180	-.0278	-.0296	.0336	-.0097	-.0744			
110.000	-.0309	.0361	.0958	.1040	.0568	-.0754			
120.000						-.0764			
130.000						.1715			
140.000						.3222			
150.000						.2606			
160.000						.2580			
170.000						.2001			
180.000	-.0237	.1875	.2316	.2611	.3063	.4227			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.250 ALPHA (7) = 4.447

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1000	.0535	-.1048												
70.000	.1270	.1015	-.0235												
80.000	.1198	.1186	.0324												
90.000			.0473	-.2052	-.4255	-.4941	-.5060	-.4850	-.4692	-.4317	-.3523	-.3044	-.2320	-.2014	-.1641
100.000						-.4960	-.5132	-.5218	-.5326	-.5416	-.4016	-.2950	-.2264	-.2174	-.1604
110.000						-.5419	-.5391	-.5444	-.5444	-.5567	-.4908	-.2821	-.2286	-.2186	-.1794
120.000						-.4813								.0000	
130.000						-.5573								-.3503	
140.000						-.5710								-.3709	
150.000						-.5203								-.3631	
160.000						-.4905								-.3546	
170.000						-.4446								-.3398	
180.000						-.4236	-.3848	-.3492	-.3378	-.3331	-.3235	-.3224	-.3180	-.3185	-.3035

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1216	-.1100	-.0931	-.0955	-.0940	-.1016	-.0805	-.0550	.0039	.0177	.0077	-.0297	-.0621	-.0690	-.0829
100.000	-.1353	-.1178	-.1018	-.0991	-.0930	-.1020	-.0923	-.0624	.0017	.0046	.0182	-.0219	-.0441	-.0378	-.0744
110.000	.0000	-.1323	-.1056	-.1004	-.0919	-.0912	-.0779	-.0517	-.0106	.0134	.0111	-.0097	-.0238	-.0217	-.0547
120.000						-.0662								-.0005	
130.000						-.0656								.0158	
140.000						-.0671								.0176	
150.000						-.0628								.0163	
160.000						-.0780								.0187	
170.000						-.0898								.0152	
180.000	-.2834	-.2548	-.2235	-.1919	-.1428	-.1099	-.0997	-.0860	-.0754	-.0694	-.0534	-.0416	-.0193	.0053	.0864

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0200		
70.000							-.0627	-.1212	.0000
80.000							-.0880	-.1733	-.1833
90.000	-.1398	-.0805	-.0576	-.0512	.1370	.0000	-.1091	-.1925	-.1861
100.000	-.1395	-.0823	-.0583	.0268	-.0108	-.0844			
110.000	-.0573	-.0128	.0759	.0993	.0475	-.1031			
120.000						-.0179			
130.000						.1139			
140.000						.2951			
150.000						.2362			
160.000						.2159			
170.000						.2260			
180.000	-.0452	.1637	.1884	.2166	.2714	.3897			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.249 ALPHA (8) = 6.560

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0772	.0183	-.1389												
70.000	.0573	.0507	-.0549												
80.000	.0933	.0584	.0186												
90.000			.0474	-.2006	-.4494	-.4978	-.5145	-.4946	-.4756	-.3682	-.3227	-.2977	-.2353	-.2025	-.1660
100.000						-.4958	-.5145	-.5268	-.5396	-.4985	-.3759	-.3093	-.2254	-.2081	-.1514
110.000						-.5376	-.5386	-.5497	-.5494	-.5713	-.4309	-.2830	-.2322	-.2200	-.1645
120.000						-.4836								.0000	
130.000						-.5752								-.2857	
140.000						-.5984								-.3674	
150.000						-.5504								-.3781	
160.000						- 5182								-.3440	
170.000						-.4745								-.3584	
180.000						-.4506	-.4175	-.3792	-.3669	-.3615	-.3514	-.3491	- 3361	-.3359	-.3006

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1296	-.1320	-.1146	-.1168	-.1131	-.1173	-.0890	-.0334	-.0037	.0104	.0051	-.0367	-.0694	-.0835	-.1062
100.000	-.1374	-.1384	-.1281	-.1206	-.1102	-.1158	-.0962	-.0447	.0018	-.0103	.0150	-.0302	-.0556	-.0553	-.0973
110.000	.0000	-.1235	-.1170	-.1134	-.1085	-.1078	-.0835	-.0433	-.0117	.0106	.0093	-.0185	-.0356	-.0394	.0000
120.000						-.0670								-.0119	
130.000						-.0549								.0104	
140.000						-.0549								.0124	
150.000						-.0499								.0073	
160.000						-.0620								.0073	
170.000						-.0724								.0119	
180.000	-.2780	-.2425	-.1902	-.1398	-.1056	-.0884	-.0800	-.0717	-.0627	-.0512	-.0412	-.0200	-.0122	.0111	.0631

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0403		
70.000							-.0864	-.1344	.0000
80.000							-.1081	-.1941	-.2098
90.000	-.1572	-.1282	-.0902	-.0598	.1421	.0000	-.1364	-.1187	-.2090
100.000	-.1592	-.1250	-.0822	.0251	-.0165	-.0963			
110.000	-.0991	-.0639	.0688	.1080	.0446	-.1117			
120.000						-.0025			
130.000						.1516			
140.000						.2420			
150.000						.2642			
160.000						.2348			
170.000						.2839			
180.000	-.0856	.1429	.1781	.2213	.2632	.3360			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (6) = 1.249 ALPHA (9) = 8.676

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0381	-.0152	-.1933												
70.000	.0530	.0098	-.0986												
80.000	.0436	.0050	-.0032												
90.000			.0372	-.1986	-.4502	-.5023	-.5161	-.5067	-.3741	-.3147	-.2949	-.2589	-.2153	-.2011	-.1966
100.000						-.5032	-.5199	-.5295	-.5308	-.3680	-.3412	-.2950	-.2306	-.2304	-.1615
110.000						-.5347	-.5392	-.5526	-.5541	-.5286	-.3880	-.2992	-.2245	-.2103	-.1589
120.000						-.4900								.0000	
130.000						-.5915								-.2234	
140.000						-.6270								-.2851	
150.000						-.5770								-.3545	
160.000						-.5492								-.3863	
170.000						-.5093								-.3758	
180.000						-.4912	-.4507	-.4120	-.3964	-.3853	-.3728	-.3700	-.3576	-.3460	-.2961

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1518	-.1581	-.1440	-.1440	-.1383	-.1261	-.0735	-.0322	.0045	.0040	-.0078	-.0562	-.0940	-.1050	-.1361
100.000	-.1537	-.1669	-.1564	-.1475	-.1354	-.1254	-.0888	-.0513	-.0038	-.0138	.0004	-.0459	-.0782	-.0823	-.1269
110.000	.0000	-.1480	-.1431	-.1417	-.1344	-.1135	-.0803	-.0412	-.0116	.0047	-.0069	-.0362	-.0551	-.0707	-.1122
120.000						-.0646								-.0279	
130.000						-.0463								-.0390	
140.000						-.0416								.0036	
150.000						-.0357								.0077	
160.000						-.0510								.0021	
170.000						-.0619								.0000	
180.000	-.2442	-.1805	-.1341	-.1007	-.0842	-.0732	-.0686	-.0641	-.0549	-.0444	-.0341	-.0277	-.0083	.0028	.0465

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0676		
70.000							-.1135	-.1536	.0000
80.000							-.1333	-.2127	-.2382
90.000	-.1625	-.1504	-.1609	-.0839	.1410	.0000	-.1596	-.2357	-.2436
100.000	-.1859	-.1841	-.1649	.0128	-.0215	-.1171			
110.000	-.1409	-.1480	.0366	.0927	.0229	-.1195			
120.000						.0073			
130.000						.2145			
140.000						.2166			
150.000						.2880			
160.000						.2780			
170.000						.3426			
180.000	-.1220	.0848	.1710	.2245	.2826	.2728			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (7) = 1.400 ALPHA (1) = -8.533

SECTION (1)OR3. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3111	.3086	.0907												
70.000	.3376	.3313	.1672												
80.000	.3666	.2992	.1921												
90.000			.1339	-.1010	-.2657	-.3118	-.3108	-.2993	-.2950	-.3392	-.2756	-.1841	-.1133	-.0945	-.0837
100.000						-.3105	-.3278	-.3257	-.3247	-.3150	-.2751	-.2437	-.1668	-.1563	-.0963
110.000						-.4338	-.4131	-.3706	-.3303	-.2845	-.2613	-.2470	-.2352	-.2261	-.1554
120.000						-.2735								.0000	
130.000						-.2587								-.1804	
140.000						-.2463								-.1639	
150.000						-.2106								-.1351	
160.000						-.1824								-.1077	
170.000						-.1476								-.0678	
180.000						-.1087	-.0717	-.0456	-.0443	-.0444	-.0346	-.0423	-.0529	-.0531	-.0588

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7100
PHI															
90.000	-.0513	-.0486	-.0378	-.0388	-.0382	-.0507	-.0380	-.0327	-.0160	.0057	.0266	.0195	.0012	-.0103	-.0114
100.000	-.0768	-.0718	-.0594	-.0527	-.0489	-.0625	-.0619	-.0609	-.0385	-.0514	-.0195	-.0255	-.0361	-.0526	-.0523
110.000	.0000	-.1336	-.1414	-.1489	-.1437	-.1355	-.1162	-.0937	-.0740	-.0510	-.0341	-.0223	-.0191	-.0219	-.0338
120.000						-.1099								-.0374	
130.000						-.1402								-.0609	
140.000						-.1524								-.0614	
150.000						-.1129								-.0534	
160.000						-.0967								-.0424	
170.000						-.0757								-.0374	
180.000	-.0731	-.0761	-.0586	-.0634	-.0627	-.0607	-.0730	-.0830	-.0700	-.0674	-.0509	-.0429	-.0265	-.0250	-.0472

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9005	.9400
PHI									
60.000							.1697		
70.000							.1059	.0494	.0000
80.000							.0583	-.0226	.0026
90.000	-.0234	-.0254	.0437	.0856	.2981	.0000	.0239	-.0381	.0110
100.000	-.0287	-.0171	.0660	.1159	.1038	.0680			
110.000	-.0351	-.0033	.1218	.1424	.1106	-.0179			
120.000						-.0529			
130.000						.2035			
140.000						.4929			
150.000						.5638			
160.000						.4761			
170.000						.3541			
180.000	-.0237	.0470	.3127	.4227	.4747	.6210			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (P) = 1.401 ALPHA (Z) = -6.413

SECTION (1)=FB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1160	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
90.000	.2755	.2807	.0643												
70.000	.3015	.3122	.1470												
80.000	.3271	.2835	.1742												
90.000			.1355	-.1033	-.2836	-.3371	-.3372	-.3163	-.3054	-.3477	-.2977	-.2126	-.1441	-.1234	-.1111
100.000						-.3368	-.3513	-.3511	-.3490	-.3352	-.2961	-.2562	-.1858	-.1731	-.1190
110.000						-.4331	-.4149	-.3881	-.3628	-.3170	-.2760	-.2583	-.2396	-.2280	-.1651
120.000						-.2970								.0000	
130.000						-.3048								-.2111	
140.000						-.2864								-.1954	
150.000						-.2517								-.1675	
160.000						-.2285								-.1417	
170.000						-.1924								-.1231	
180.000						-.1567	-.1144	-.0876	-.0864	-.0874	-.0757	-.0830	-.0892	-.0956	-.0941

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0799	-.0734	-.0598	-.0616	-.0616	-.0694	-.0605	-.0535	-.0385	-.0149	.0089	.0040	-.0148	-.0258	-.0305
100.000	-.1008	-.0915	-.0791	-.0714	-.0681	-.0774	-.0808	-.0770	-.0578	-.0607	-.0249	-.0271	-.0346	-.0341	-.0546
110.000	.0000	-.1335	-.1335	-.1315	-.1376	-.1377	-.1279	-.1114	-.0938	-.0745	-.0559	-.0442	-.0394	-.0441	-.0509
120.000						-.1188								-.0490	
130.000						-.1457								-.0723	
140.000						-.1595								-.1773	
150.000						-.1359								-.0737	
160.000						-.1231								-.0632	
170.000						-.1009								-.0622	
180.000	-.1008	-.1002	-.0900	-.0957	-.0922	-.0928	-.1014	-.1068	-.1054	-.0991	-.0753	-.0655	-.0509	-.0456	.0174

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1276		
70.000							.0797	.0197	.0000
80.000							.0320	-.0406	-.0256
90.000	-.0452	-.0463	.0395	.0597	.2630	.0000	-.0105	-.0655	-.0248
100.000	-.0460	-.0346	.0417	.0900	.0755	.0463			
110.000	-.0519	-.0097	.1029	.1212	.0920	-.0297			
120.000						-.0523			
130.000						.2037			
140.000						.4652			
150.000						.5221			
160.000						.4298			
170.000						.3210			
180.000	-.0512	.0204	.2716	.3772	.4281	.5374			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (M) = 1.401 ALPHA (S) = -4.256

SECTION (1)068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2401	.2529	.3400												
90.000	.2676	.2827	.1298												
80.000	.2909	.2654	.1654												
90.000			.1387	-.0985	-.3015	-.3464	-.3514	-.3389	-.3392	-.3892	-.3143	-.2428	-.1733	-.1516	-.1248
100.000						-.3459	-.3637	-.3663	-.3745	-.3849	-.3550	-.2645	-.1977	-.1820	-.1375
110.000						-.4272	-.4150	-.3980	-.3834	-.3571	-.3254	-.2410	-.2415	-.2254	-.1721
120.000						-.3135								-.0957	
130.000						-.3339								-.2294	
140.000						-.3224								-.22	
150.000						-.2944								-.1574	
160.000						-.2677								-.1774	
170.000						-.2310								-.1554	
180.000						-.1945	-.1557	-.1235	-.1268	.126	-.1154	-.1247	-.129	-.1345	-.1311

X/L	.4500	.4680	.4860	.5050	.5240	.5440	.5610	.5800	.5980	.6170	.6360	.6550	.6730	.6880	.7110
PHI															
90.000	-.1042	-.0946	.0822	-.0809	-.0781	-.0801	-.0717	-.0627	-.0484	-.0274	-.0016	.0036	.0352	.0445	.0492
100.000	-.1146	-.1113	.0987	-.0881	-.0821	-.0643	-.0834	-.0766	-.0562	-.0564	-.0421	-.0236	-.0346	-.0471	-.0511
110.000	.0000	-.1433	-.1380	-.1376	-.1329	-.1373	-.1276	-.1167	-.1025	-.0844	-.0695	-.0617	-.0527	-.0556	-.0620
120.000						-.1170								-.0466	
130.000						-.1433								-.0644	
140.000						-.1548								-.0733	
150.000						-.1442								-.0793	
160.000						-.1488								-.0763	
170.000						-.1328								-.0747	
180.000	-.1326	-.1303	-.1152	-.1200	-.1143	-.1215	-.1318	-.1363	-.1355	-.1247	-.1078	-.0947	-.0727	-.0787	-.0026

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0935		
90.000							.0459	.0125	.0000
80.000							.0118	-.0528	-.0468
90.000	-.0842	-.0576	.0140	.0368	.2315	.0000	-.0257	-.0805	-.0482
100.000	-.0846	-.0485	.0111	.0728	.0565	.0241			
110.000	-.0595	-.0224	.0902	.1080	.0810	-.0364			
120.000						-.0520			
130.000						.2060			
140.000						.4287			
150.000						.4661			
160.000						.3734			
170.000						.2849			
180.000	-.0112	-.0008	.2466	.3321	.3751	.4514			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (7) = 1.450 ALPHA (4) = -2.132

SECTION (1)OBS. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2050	.1943	.0214												
70.000	.2342	.2329	[illegible]												
60.000	.2423	.2552	.1495												
90.000			.1380	-.0937	-.2939	-.3522	-.3625	-.3537	-.3549	-.4129	-.3875	-.2974	-.1985	-.1715	-.1395
100.000						-.3529	-.3743	-.3799	-.3899	-.4052	-.3878	-.3483	-.2390	-.2004	-.1452
110.000						-.4250	-.4146	-.4075	-.3999	-.3871	-.3565	-.3285	-.3020	-.2730	-.1741
120.000						-.3274								.3000	
130.000						-.3612								-.2473	
140.000						-.3547								-.2399	
150.000						-.3221								-.2239	
160.000						-.2995								-.2007	
170.000						-.2673								-.1867	
180.000						-.2521	-.1972	-.1708	-.1672	-.1632	-.1543	-.1568	-.1607	-.1656	-.1658

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1166	-.1087	-.0940	-.0945	-.0928	-.0927	-.0781	-.0678	-.0512	-.0257	-.0036	-.0180	-.0382	-.0424	-.0469
100.000	-.1279	-.1213	-.1121	-.1052	-.0995	-.1003	-.0881	-.0788	-.0591	-.0473	-.0171	-.0214	-.0324	-.0352	-.0439
110.000	.0000	-.1392	-.1306	-.1316	-.1299	-.1360	-.1259	-.1132	-.1006	-.0821	-.0667	-.0552	-.0493	-.0537	-.0545
120.000						-.1229								-.0390	
130.000						-.1478								-.0537	
140.000						-.1635								-.0720	
150.000						-.1718								-.0836	
160.000						-.1724								-.0861	
170.000						-.1538								-.0906	
180.000	-.1713	-.1672	-.1474	-.1469	-.1422	-.1452	-.1560	-.1586	-.1591	-.1480	-.1168	-.1066	-.0913	-.0866	-.0209

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0617		
70.000							.0130	-.0227	.3000
60.000							-.0186	-.0732	-.0830
90.000	-.0812	-.0711	.0207	.0244	.2023	.0000	-.0461	-.1068	-.0895
100.000	-.0818	-.0698	.0093	.0711	.0455	.0011			
110.000	-.0585	-.0328	.0872	.1121	.0799	-.0571			
120.000						-.0431			
130.000						.2169			
140.000						.4013			
150.000						.4040			
160.000						.3263			
170.000						.2521			
180.000	-.0991	-.0060	.2318	.2897	.3220	.3667			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (P) = 1.399 ALPHA (S) = .083

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1942	.1542	-.0008												
70.000	.2197	.1892	.0826												
80.000	.2228	.1923	.1330												
90.000			.1395	-.0945	-.2949	-.3516	-.3621	-.3577	-.3608	-.4126	-.4059	-.3871	-.2755	-.2130	-.1558
100.000						-.3531	-.3743	-.3787	-.3911	-.4075	-.4028	-.3[illegible]	-.3252	-.2827	-.1643
110.000						-.4144	-.4100	-.4064	-.4024	-.3935	-.3[illegible]	-.3568	-.3234	-.3251	-.2[illegible]
120.000						-.3414								.0000	
130.000						-.3855								-.2569	
140.000						-.3852								-.2512	
150.000						-.3500								-.04	
160.000						-.3294								-.22[illegible]	
170.000						-.2966								-.2[illegible]	
180.000						-.2653	-.2230	-.2030	-.1970	-.1926	-.1855	-.1886	-.1911	-.[illegible]	.1919

X/L	.4500	.4690	.4860	.5050	.5240	.5460	.5610	.5800	5980	.6170	.6[illegible]	.6540	.6730	.[illegible]	.71[illegible]
PHI															
90.000	-.1301	-.1211	-.1079	-.1038	-.0974	-.0951	.0752	.0573	-.0356	.0138	.002[illegible]	.017	.0428	.[illegible]	.1625
100.000	-.1379	-.1308	-.1187	-.1120	-.1041	-.1[illegible]	.0911	-.0697	-.0451	-.0323	-.0[illegible]	-.0[illegible]	-.[illegible]328	-.[illegible]	.0559
110.000	.0000	-.1416	-.1300	-.1221	-.1188	-.1133	-.1074	-.0864	-.0666	-.0451	-.0286	-.0261	-.0251	-.[illegible]345	.0479
120.000						-.1230								.[illegible]270	
130.000						-.1571								.0365	
140.000						-.1693								.0498	
150.000						-.1338								.[illegible]675	
160.000						-.1966								.0753	
170.000						-.1786								.0828	
180.000	-.2021	-.2026	-.1812	-.1768	-.1668	-.1640	-.1723	-.1726	-.1773	-.1616	-.1368	-.1191	-.1028	-.0941	.0228

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0247		
70.000							-.[illegible]144	-.0531	.0000
80.000							-.0463	-.1070	-.1130
90.000	-.0840	-.0509	.0137	.0094	.1726	.0000	-.0700	-.1270	-.1202
100.000	-.0869	-.0697	-.0094	.0697	.0368	-.0267			
110.000	-.0559	-.0398	.0802	.1122	.0765	-.0301			
120.000						-.0399			
130.000						.2110			
140.000						.3547			
150.000						.3224			
160.000						.2736			
170.000						.2068			
180.000	-.0405	.0357	.2138	.2519	.2706	.3130			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (P) = 1.400 ALPHA (6) = 2.27

SECTION (11)=S. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1270	.1260	.1640	.2050	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4110
PHI															
80.000	.1667	.1316	-.0268												
70.000	.1907	.1555	.0621												
80.000	.1851	.1457	.1285												
90.000			.1397	-.1855	-.2681	.3531	-.3682	-.3669	-.3695	-.4203	-.4139	-.4121	-.3511	-.2667	-.1673
100.000						-.3554	-.3759	-.3848	-.4006	-.4162	-.4172	-.4018	-.3537	-.3334	-.1797
110.000						-.4147	-.4042	-.4100	-.4095	-.4210	-.3950	-.3554	-.3367	-.3360	-.2417
120.000						-.3463								.0000	
130.000						-.4050								-.2714	
140.000						-.4146								-.2644	
150.000						-.3761								-.2537	
160.000						-.3564								-.2481	
170.000						-.1264								-.2351	
180.000						-.2055	-.2626	-.2342	-.2263	-.2207	-.2133	-.2146	-.2106	-.2185	-.2183

X/L	.4510	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1385	-.1232	-.1057	-.0989	-.0884	-.0690	-.0547	-.0409	-.0247	-.0073	.0022	-.0201	-.0545	-.0627	-.1656
100.000	-.1470	-.1309	-.1167	-.1087	-.0971	-.0779	-.0757	-.0617	-.0379	-.0404	-.0019	-.0177	-.0547	-.0411	-.0655
110.000	.0000	-.1583	-.1265	-.1149	-.1061	-.0948	-.0840	-.0614	-.0471	-.0317	-.0157	-.0146	-.0226	-.0324	-.0525
120.000						-.1159								-.0203	
130.000						-.1513								-.0182	
140.000						-.1477								-.0266	
150.000						-.2111								-.0346	
160.000						-.2166								-.0457	
170.000						-.2018								-.0592	
180.000	-.2241	-.2228	-.2077	-.2071	-.1958	-.1847	-.1913	-.1762	-.1622	-.1593	-.1241	-.1018	-.0865	-.0723	-.0022

X/L	.7290	.7470	.7670	.7850	.8050	.8230	.8620	.9000	.9400
PHI									
80.000							-.0034		
70.000							-.0466	-.0144	.0000
80.000							-.0790	-.1285	-.1345
90.000	-.1004	-.0445	-.0147	-.0095	.1359	.0000	-.0943	-.1506	-.1440
100.000	-.1026	-.0805	-.0716	.0563	.0259	-.0369			
110.000	-.0541	-.0459	.0762	.1053	.0693	-.0346			
120.000						-.1122			
130.000						.2155			
140.000						.2320			
150.000						.2468			
160.000						.2288			
170.000						.1669			
180.000	-.0407	.0914	.1897	.2068	.2260	.2639			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (7) = 1.401 ALPHA (7) = 4.335

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1515	.1120	-.0871												
70.000	.1719	.1364	.0298												
80.000	.1657	.1372	.1129												
90.000			.1454	-.0782	-.2975	-.3576	-.3730	-.3717	-.3753	-.4241	-.4190	-.4246	-.3918	-.3186	-.1839
100.000						-.3557	-.3754	-.3874	-.4022	-.4205	-.4261	-.4256	-.3786	-.3669	-.1955
110.000						-.3967	-.3966	-.4070	-.4111	-.4311	-.4193	-.3759	-.3517	-.3509	-.2651
120.000						-.3468								.0000	
130.000						-.4133								-.2875	
140.000						-.4354								-.2813	
150.000						-.3959								-.2761	
160.000						-.3729								-.2718	
170.000						-.3422								-.2537	
180.000						-.3185	-.2854	-.2578	-.2506	-.2453	-.2394	-.2427	-.2416	-.2411	-.2390

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6980	.7100
PHI															
90.000	-.1440	-.1204	-.1057	-.0922	-.0734	-.0608	-.0511	-.0409	-.0314	-.0176	-.0013	-.0302	-.0595	.0813	-.0761
100.000	-.1555	-.1369	-.1188	-.1043	-.0910	-.0793	-.0667	-.0586	-.0346	-.0363	.0055	.0226	.0419	.0495	-.0784
110.000	.0000	-.1413	-.1217	-.1116	-.0994	-.0852	-.0769	-.0646	-.0484	-.0329	-.0118	.0169	-.0231	.0354	-.0651
120.000						-.1106								.0234	
130.000						-.1300								.0121	
140.000						-.1698								.0150	
150.000						-.1954								.0181	
160.000						-.2221								.0193	
170.000						-.2196								.0284	
180.000	-.2435	-.2418	-.2263	-.2252	-.2139	-.2061	-.2069	-.1886	-.1714	-.1407	-.1058	-.0806	-.0599	.0437	.0405

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0246		
70.000							-.0736	-.0920	.0000
80.000							-.0998	-.1480	-.1557
90.000	-.1137	-.0866	-.0749	-.0410	.1118	.0000	-.1111	-.1715	-.1675
100.000	-.1167	-.1058	-.0966	.0357	.0216	-.0381			
110.000	-.0725	-.0711	.0366	.0964	.0806	-.0340			
120.000						.0313			
130.000						.1512			
140.000						.2761			
150.000						.1888			
160.000						.1994			
170.000						.1598			
180.000	-.0536	.0853	.1508	.1719	.1999	.3296			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (7) = 1.401 ALPHA (8) = 6.479

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1411	.0898	-.1035												
70.000	.1517	.1161	-.0175												
80.000	.1492	.1115	.0635												
90.000			.1206	-.0783	-.2937	-.3624	-.3770	-.3782	-.3829	-.4260	-.4209	-.4266	-.3686	-.2959	-.1824
100.000						-.3619	-.3773	-.3902	-.4056	-.4225	-.4301	-.4404	-.4031	-.3519	-.1824
110.000						-.3895	-.3951	-.4079	-.4133	-.4388	-.4388	-.4057	-.3680	-.3658	-.2103
120.000						-.3482								.0000	
130.000						-.4339								-.3003	
140.000						-.4592								-.2945	
150.000						-.4206								-.2916	
160.000						-.3969								-.2937	
170.000						-.3653								-.2789	
180.000						-.3489	-.3142	-.2845	-.2768	-.2715	-.2016	-.2654	-.2645	-.2632	-.2589

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1376	-.1140	-.0901	-.0774	-.0667	-.0726	-.0633	-.0546	-.0448	-.0297	-.0203	-.0411	-.0736	-.0914	-.1002
100.000	-.1472	-.1236	-.1046	-.0922	-.0774	-.0798	-.0780	-.0715	-.0490	-.0566	-.0127	-.0338	-.0551	-.0663	-.1018
110.000	.0000	-.1336	-.1176	-.1081	-.0957	-.0881	-.0796	-.0688	-.0515	-.0388	-.0205	-.0213	-.0363	-.0480	-.0889
120.000						-.0911								-.0303	
130.000						-.1071								-.0074	
140.000						-.1181								-.0049	
150.000						-.1334								-.0062	
160.000						-.1757								-.0104	
170.000						-.2047								-.0127	
180.000	-.2600	-.2528	-.2306	-.2290	-.2169	-.2122	-.2037	-.1571	-.1259	-.0959	-.0698	-.0560	-.0426	-.0203	.0419

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0445		
70.000							-.0819	-.1013	.0000
80.000							-.1199	-.1634	-.1754
90.000	-.1319	-.1056	-.1242	-.1053	.0927	.0000	-.1131	-.1907	-.1926
100.000	-.1372	-.1406	-.1395	.0008	.0222	-.0372			
110.000	-.1006	-.1207	-.0201	.0922	.1081	-.0342			
120.000						.0609			
130.000						.1739			
140.000						.2292			
150.000						.2077			
160.000						.1706			
170.000						.2016			
180.000	-.0851	.0378	.1392	.1585	.1829	.2353			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (7) = 1.400 ALPHA (9) = 8.566

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1120	.0612	-.1250												
70.000	.1161	.0801	-.0589												
80.000	.1171	.0859	-.0045												
90.000			.0905	-.0780	-.3072	-.3666	-.3844	-.3892	-.3923	-.4327	-.4257	-.3831	-.2823	-.2596	-.1865
100.000						-.3682	-.3826	-.3949	-.4117	-.4298	-.4370	-.4510	-.3519	-.2825	-.1715
110.000						-.3866	-.3961	-.4119	-.4198	-.4461	-.4557	-.4395	-.3889	-.3045	-.1789
120.000						-.3486								.0000	
130.000						-.4502								-.3138	
140.000						-.4859								-.3075	
150.000						-.4428								-.304?	
160.000						-.4208								-.30??	
170.000						-.3919								-.29??	
180.000						-.3787	-.3438	-.3159	-.3029	-.2960	-.2860	-.2885	-.2861	-.2830	-.2753

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1249	-.1048	-.0869	-.0852	-.0852	-.0971	-.0884	-.0808	-.0718	-.0531	-.0310	-.0633	-.0926	-.1090	-.1061
100.000	-.1372	-.1153	-.1027	-.0914	-.0877	-.1060	-.1028	-.0968	-.0676	-.0718	-.0322	-.0471	-.0709	-.0832	-.1039
110.000	.0000	-.1269	-.1097	-.1014	-.0989	-.1097	-.1014	-.0874	-.0701	-.0525	-.0410	-.0440	-.0528	-.0693	.0947
120.000						-.0967								-.0302	
130.000						-.0805								-.0125	
140.000						-.0849								-.0072	
150.000						-.0831								-.0135	
160.000						-.1081								-.0235	
170.000						-.1412								-.0280	
180.000	-.2752	-.2555	-.2357	-.2321	-.2109	-.1780	-.1384	-.1064	-.0854	-.0676	-.0551	-.0505	-.0401	-.0332	.0137

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0821		
70.000							-.1130	-.1264	.0000
80.000							-.1404	-.1909	-.1986
90.000	-.1358	-.1168	-.1421	-.1247	.0832	.0000	-.1374	-.2123	-.2207
100.000	-.1402	-.1503	-.1572	-.0149	.0013	-.0717			
110.000	-.1127	-.1293	-.0457	.0766	.0602	-.0634			
120.000						.0890			
130.000						.2310			
140.000						.2244			
150.000						.2598			
160.000						.2292			
170.000						.2731			
180.000	-.0999	.0167	.1256	.1443	.1736	.1705			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.500 ALPHA (1) = -8.675

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3129	.3420	.1326												
70.000	.3330	.3693	.2151												
80.000	.3605	.3454	.2424												
90.000			.1954	-.0329	-.2013	-.2593	-.2637	-.2554	-.2648	-.2911	-.2405	-.1760	-.1057	-.0792	-.0551
100.000						-.2590	-.2728	-.2759	-.2800	-.2787	-.2441	-.2043	-.1501	-.1423	-.0749
110.000						-.3574	-.3459	-.3216	-.2898	-.2521	-.2280	-.2148	-.1940	-.1903	-.1420
120.000						-.2143								.0000	
130.000						-.2148								-.1439	
140.000						-.1996								-.1232	
150.000						-.1667								-.0933	
160.000						-.1474								-.0669	
170.000						-.1184								-.0486	
180.000						-.0814	-.0398	-.0137	-.0133	-.0111	-.0023	-.0105	-.0207	-.0277	-.0307

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0223	-.0163	-.0007	.0005	.0022	-.0105	-.0074	-.0033	.0120	.0329	.0556	.0507	.0306	.0183	.0215
100.000	-.0505	-.0385	-.0225	-.0152	-.0082	-.0192	-.0225	-.0263	-.0103	-.0246	.0089	.0038	-.0063	-.0073	-.0292
110.000	.0000	-.1031	-.1007	-.1057	-.1054	-.1018	-.0846	-.0646	-.0497	-.0322	-.0162	-.0027	.0040	-.0023	-.0215
120.000						-.0755								-.0213	
130.000						-.1130								-.0477	
140.000						-.1029								-.0461	
150.000						-.0638								-.0372	
160.000						-.0489								-.0228	
170.000						-.0269								-.0202	
180.000	-.0330	-.0293	-.0142	-.0186	-.0131	-.0136	-.0243	-.0484	-.0363	-.0401	-.0282	-.0292	-.0139	-.0084	.0576

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1735		
70.000							.1118	.0778	.0000
80.000							.0672	.0052	.0124
90.000	.0145	-.0084	.0311	.0998	.2748	.0000	.0176	-.0284	.0145
100.000	.0002	-.0173	.0380	.1099	.1152	.0922			
110.000	-.0137	-.0145	.0774	.1480	.1334	.0237			
120.000						-.0250			
130.000						.2393			
140.000						.5114			
150.000						.5644			
160.000						.4837			
170.000						.3728			
180.000	-.0165	.0215	.2606	.4090	.4668	.6227			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (6) = 1.498 ALPHA (2) = -6.471

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2806	.2953	.1051												
70.000	.3108	.3252	.1910												
80.000	.3285	.3198	.2272												
90.000			.1980	-.0342	-.2177	-.2715	-.2743	-.2717	-.2922	-.3348	-.3110	-.2216	-.1352	-.1128	-.0840
100.000						-.2709	-.2826	-.2965	-.3069	-.3136	-.2896	-.2743	-.2001	-.1691	-.1000
110.000						-.3550	-.3431	-.3368	-.3152	-.2865	-.2599	-.2464	-.2457	-.2467	-.1627
120.000						-.2342								.0000	
130.000						-.2503								-.1664	
140.000						-.2382								-.1531	
150.000						-.2081								-.1257	
160.000						-.1877								-.1023	
170.000						-.1581								-.0879	
180.000						-.1231	-.0647	-.0660	-.0615	-.0569	-.0459	-.0556	-.0619	-.0884	-.0711

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0559	-.0431	-.0379	-.0379	-.0349	.0431	-.0370	-.0312	-.0178	.0082	.0279	.0187	.0061	-.0014	-.0136
100.000	-.0721	-.0611	-.0552	-.0457	-.0395	-.0458	-.0490	-.0469	-.0297	-.0320	.0099	-.0117	-.0119	-.0147	-.0338
110.000	.0000	-.1096	-.1112	-.1138	-.1122	-.1213	-.1108	-.0913	-.0769	-.0543	-.0281	-.0345	-.0244	-.0229	-.0350
120.000						-.0873								-.0396	
130.000						-.1283								-.0623	
140.000						-.1435								-.0671	
150.000						-.0983								-.0600	
160.000						-.0832								-.0490	
170.000						-.0599								-.0510	
180.000	-.0714	-.0721	-.0612	-.0619	-.0505	-.0489	-.0586	-.0657	-.0703	-.0766	-.0538	-.0725	-.0528	-.0436	.0222

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1176		
70.000							.0612	.0377	.0000
80.000							.0264	-.0256	-.0192
90.000	-.0266	-.0422	.0114	.0633	.2414	.0000	-.0112	-.0657	-.0265
100.000	-.0288	-.0394	.0067	.0857	.3825	.0722			
110.000	-.0360	-.0288	.0681	.1245	.1165	.0052			
120.000						-.0292			
130.000						.2191			
140.000						.4596			
150.000						.5059			
160.000						.4193			
170.000						.3161			
180.000	-.0435	.0009	.2201	.3573	.4325	.5319			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.500 ALPHA (3) = -4.321

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2742	.2519	.0863												
70.000	.2971	.2793	.1732												
80.000	.3088	.2762	.2143												
90.000			.2022	-.0274	-.2117	-.2769	-.2867	-.2832	-.2952	-.3416	-.3300	-.2910	-.1881	-.1445	-.1040
100.000						-.2777	-.2967	-.3016	-.3119	-.3256	-.3130	-.2962	-.2530	-.2136	-.1189
110.000						-.3467	-.3435	-.3331	-.3217	-.3044	-.2789	-.2622	-.2596	-.2635	-.1909
120.000						-.2494								.0000	
130.000						-.2751								-.1781	
140.000						-.2665								-.1729	
150.000						-.2375								-.1507	
160.000						-.2187								-.1293	
170.000						-.1913								-.1145	
180.000						-.1587	-.1185	-.0942	-.0913	-.0873	-.0815	-.0863	-.0926	-.0970	-.1004

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0787	-.0709	-.0565	-.0552	-.0534	-.0607	-.0569	-.0454	-.0272	.0012	.0227	.0179	.0024	-.0118	-.0156
100.000	-.0937	-.0824	-.0690	-.0609	-.0578	-.0644	-.0640	-.0578	-.0393	-.0269	.0040	.0076	-.0004	-.0075	-.0234
110.000	.0000	-.1185	-.1050	-.1024	-.1032	-.1146	-.1105	-.1055	-.0944	-.0728	-.0531	-.0412	-.0275	-.0310	-.0383
120.000						-.0988								-.0340	
130.000						-.1428								-.0602	
140.000						-.1647								-.0728	
150.000						-.1260								-.0746	
160.000						-.1088								-.0675	
170.000						-.0882								-.0695	
180.000	-.1089	-.1079	-.0917	-.0849	-.0768	-.0735	-.0816	-.0908	-.0923	-.0971	-.0855	-.0882	-.0740	-.0680	-.0059

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0769		
70.000							.0312	.0111	.0000
80.000							.0028	-.0454	-.0387
90.000	-.0353	-.0496	-.0098	.0384	.2066	.0000	-.0265	-.0866	-.0518
100.000	-.0385	-.0501	-.0106	.0677	.0605	.0343			
110.000	-.0297	-.0377	.0720	.1148	.0957	-.0053			
120.000						-.0260			
130.000						.2194			
140.000						.4299			
150.000						.4603			
160.000						.3704			
170.000						.2867			
180.000	-.0490	-.0186	.2071	.3124	.3588	.4462			

TABULATED SOURCE DATA - 1A29/0A62

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.500 ALPHA (4) = -2.164

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2521	.2157	.0560												
70.000	.2747	.2409	.1444												
80.000	.2755	.2335	.1945												
90.000			.1932	-.0312	-.2320	-.2860	-.2928	-.2941	-.3053	-.3490	-.3404	-.3250	-.2632	-.2020	-.1263
100.000						-.2853	-.3044	-.3091	-.3214	-.3380	-.3334	-.3170	-.2821	-.2659	-.1574
110.000						-.3471	-.3438	-.3370	-.3317	-.3248	-.3011	-.2801	-.2758	-.2795	-.2377
120.000						-.2644								.0000	
130.000						-.3001								-.1978	
140.000						-.2978								-.1907	
150.000						-.2660								-.1757	
160.000						-.2515								-.1582	
170.000						-.2267								-.1[illegible]	
180.000						-.1979	-.1522	-.1278	-.1220	-.1187	.1119	-.1184	-.1232	-.1251	-.1255

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	-.1009	-.0851	-.0704	-.0665	-.0644	-.0683	-.0645	-.0576	-.0368	-.0101	.0138	.0058	-.0123	-.0225	-.0274
100.000	-.1153	-.0953	-.0812	-.0720	-.0689	-.0697	-.0700	-.0649	-.0456	-.0280	.0034	.0055	-.0032	-.0091	-.0271
110.000	.0000	-.1271	-.1085	-.1006	-.0951	-.1017	-.0997	-.0948	-.0899	-.0787	-.0580	-.0432	-.0333	-.0345	-.0414
120.000						-.1067								-.0274	
130.000						-.1608								-.0473	
140.000						-.1879								-.0674	
150.000						-.1535								-.0761	
160.000						-.1389								-.0780	
170.000						-.1188								-.0838	
180.000	-.1313	-.1316	-.1193	-.1164	-.1066	-.1034	-.1099	-.1119	-.1188	-.1213	-.1098	-.1073	-.0940	-.0851	-.0246

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0491		
70.000							.0045	-.0081	.0000
80.000							-.0130	-.0596	-.0655
90.000	-.0570	-.0579	-.0171	.0240	.1809	.0000	-.0339	-.0943	-.0752
100.000	-.0570	-.0598	-.0240	.0629	.0503	.0209			
110.000	-.0452	-.0416	.0642	.1165	.1014	.0010			
120.000						.0060			
130.000						.2246			
140.000						.3947			
150.000						.3984			
160.000						.3192			
170.000						.2484			
180.000	-.0534	-.0304	.1973	.2723	.3076	.3692			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.499 ALPHA (3) = -.007

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2216	.1817	.0168												
70.000	.2452	.2056	.1014												
80.000	.2392	.1934	.1686												
90.000			.1827	-.0296	-.2254	-.2917	-.2993	-.2994	-.3080	-.3441	-.3382	-.3353	-.3057	-.2848	-.1782
100.000						-.2914	-.3115	-.3175	-.3264	-.3398	-.3403	-.3277	-.2884	-.2847	-.2390
110.000						-.3437	-.3431	-.3428	-.3410	-.3398	-.3184	-.2882	-.2732	-.2752	-.2600
120.000						-.2752								.0000	
130.000						-.3188								-.2079	
140.000						-.3229								-.2061	
150.000						-.2911								-.1969	
160.000						-.2752								-.1784	
170.000						-.2547								-.1651	
180.000						-.2236	-.1864	-.1612	-.1549	-.1502	-.1419	-.1459	-.1464	-.1482	-.1482

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1240	-.1017	-.0843	-.0763	-.0683	-.0701	-.0648	-.0529	-.0319	-.0058	.0100	.0043	-.0184	-.0261	-.0313
100.000	-.1603	-.1184	-.0949	-.0833	-.0741	-.0733	-.0721	-.0656	-.0411	-.0266	.0025	.0038	-.0044	-.0112	-.0288
110.000	.0000	-.1652	-.1230	-.1067	-.0949	-.0934	-.0907	-.0832	-.0735	-.0572	-.0381	-.0253	-.0156	-.0182	-.0313
120.000						-.1181								-.0220	
130.000						-.1824								-.0388	
140.000						-.2030								-.0591	
150.000						-.1732								-.0719	
160.000						-.1637								-.0831	
170.000						-.1472								-.0959	
180.000	-.1546	-.1581	-.1455	-.1460	-.1426	-.1341	-.1341	-.1297	-.1361	-.1382	-.1255	-.1274	-.1097	-.1017	-.0397

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0166		
70.000							-.0174	-.0357	.0000
80.000							-.0350	-.0866	-.0923
90.000	-.0834	-.0896	-.0104	.0130	.1504	.0000	-.0522	-.1079	-.1021
100.000	-.0871	-.0709	-.0273	.0495	.0358	.0005			
110.000	-.0447	-.0488	.0619	.1166	.1048	.0068			
120.000						.0019			
130.000						.2330			
140.000						.3593			
150.000						.3296			
160.000						.2662			
170.000						.2165			
180.000	-.0417	-.0109	.1912	.2356	.2551	.3063			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.499 ALPHA (8) = 2.216

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2035	.1572	-.0123												
70.000	.2215	.1793	.0581												
80.000	.2176	.1835	.1401												
90.000			.1760	-.0262	-.2312	-.2862	-.2992	-.3025	-.3148	-.3513	-.3471	-.3515	-.3332	-.3181	-.2237
100.000						-.2849	-.3067	-.3145	-.3317	-.3473	-.3546	-.3525	-.3148	-.3097	-.2732
110.000						-.3333	-.3327	-.3380	-.3393	-.3547	-.3427	-.3082	-.2871	-.2874	-.2771
120.000						-.2812								.0000	
130.000						-.3357								-.2179	
140.000						-.3461								-.2180	
150.000						-.3155								-.2116	
160.000						-.2999								-.2021	
170.000						-.2776								-.1908	
180.000						-.2492	-.2148	-.1880	-.1807	-.1754	-.1691	-.1716	-.1716	-.1741	-.1719

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1490	-.1191	-.1010	-.0886	-.0796	-.0764	-.0621	-.0442	-.0207	.0015	.0170	.0043	-.0171	-.0350	-.0421
100.000	-.1912	-.1378	-.1091	-.0917	-.0810	-.0785	-.0731	-.0577	-.0306	-.0161	.0035	.0026	-.0122	-.0176	-.0407
110.000	.0000	-.1859	-.1294	-.1084	-.0933	-.0894	-.0836	-.0693	-.0508	-.0293	-.0095	-.0026	-.0026	-.0095	-.0329
120.000						-.1198								-.0192	
130.000						-.1896								-.0246	
140.000						-.2179								-.0442	
150.000						-.1952								-.0577	
160.000						-.1854								-.0748	
170.000						-.1714								-.0907	
180.000	-.1789	-.1740	-.1636	-.1664	-.1644	-.1624	-.1643	-.1421	-.1573	-.1563	-.1441	-.1383	-.1214	-.1073	-.0407

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0092		
70.000							-.0436	-.0545	.0000
80.000							-.0628	-.1078	-.1152
90.000	-.0748	-.0416	-.0234	-.0080	.1190	.0000	-.0718	-.1288	-.1268
100.000	-.0735	-.0758	-.0491	.0467	.0371	-.0173			
110.000	-.0500	-.0525	.0424	.0917	.0939	.0019			
120.000						.0238			
130.000						.2390			
140.000						.3260			
150.000						.2597			
160.000						.2119			
170.000						.2046			
180.000	-.0338	.0322	.1671	.1907	.2042	.2424			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.499 ALPHA (7) = 4.349

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1819	.1416	-.0373												
70.000	.1959	.1601	.0333												
80.000	.1902	.1652	.0934												
90.000			.1683	-.0242	-.2416	-.2885	-.3047	-.3087	-.3196	-.3564	-.3535	-.3602	-.3501	-.3386	-.2659
100.000						-.2862	-.3084	-.3183	-.3347	-.3527	-.3608	-.3665	-.3365	-.3275	-.2931
110.000						-.3260	-.3306	-.3397	-.3430	-.3631	-.3608	-.3294	-.3025	-.3019	-.2852
120.000						-.2810								.0000	
130.000						-.3493								-.2347	
140.000						-.3686								-.2286	
150.000						-.3357								-.2259	
160.000						-.3164								-.2181	
170.000						-.2968								-.2073	
180.000						-.2705	-.2360	-.2112	-.2027	-.1967	-.1919	-.1952	-.1965	-.1938	-.1905

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1657	-.1295	-.1057	-.0918	-.0781	-.0673	-.0525	-.0321	-.0088	.0080	.0188	.0007	-.0280	-.0455	-.0571
100.000	-.2139	-.1390	-.1114	-.0949	-.0831	-.0757	-.0614	-.0466	-.0244	-.0155	.0086	.0040	-.0134	-.0234	-.0542
110.000	.0000	-.1919	-.1296	-.1054	-.0914	-.0826	-.0735	-.0551	-.0366	-.0142	-.0022	.0011	-.0039	-.0167	-.0452
120.000						-.1135								-.0103	
130.000						-.1757								-.0180	
140.000						-.2197								-.0267	
150.000						-.2067								-.0359	
160.000						-.1990								-.0509	
170.000						-.1862								-.0663	
180.000	-.1985	-.1932	-.1847	-.1845	-.1816	-.1783	-.1773	-.1469	-.1714	-.1670	-.1510	-.1335	-.1102	-.0841	.0085

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0311		
70.000							-.0702	-.0759	.0000
80.000							-.0914	-.1294	-.1348
90.000	-.0852	-.0590	-.0600	-.0353	.0930	.0000	-.0871	-.1533	-.1526
100.000	-.0873	-.0849	-.0801	.0317	.0324	-.0158			
110.000	-.0992	-.0717	.0368	.0875	.0708	-.0238			
120.000						.0600			
130.000						.2308			
140.000						.3015			
150.000						.2181			
160.000						.1793			
170.000						.1978			
180.000	-.0429	.0212	.1291	.1501	.1694	.2052			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB015)

MACH (8) = 1.500 ALPHA (8) = 6.447

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1535	.1183	-.0627												
70.000	.1617	.1362	.0018												
80.000	.1556	.1383	.0594												
90.000			.1523	-.0207	-.2284	-.2934	-.3091	-.3152	-.3233	-.3561	-.3535	-.3587	-.3549	-.3494	-.2385
100.000						-.2943	-.3086	-.3214	-.3363	-.3535	-.3620	-.3753	-.3539	-.3452	-.2805
110.000						-.3172	-.3245	-.3375	-.3449	-.3675	-.3745	-.3534	-.3195	-.3136	-.2890
120.000						-.2814								.0000	
130.000						-.3623								-.2447	
140.000						-.3886								-.23[illegible]	
150.000						-.3542								-.2[illegible]	
160.000						-.3346								-.2[illegible]	
170.000						-.3187								-.[illegible]	
180.000						-.2911	-.2615	-.2379	-.2258	-.2211	-.2132	-.2166	-.2163	-.2134	-.2119

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1538	-.1177	-.0909	-.0815	-.0712	-.0664	-.0508	-.0347	-.0181	-.0051	.0122	.0125	-.0431	.0647	-.0826
100.000	-.1698	-.1247	-.1004	-.0870	-.0751	-.0741	-.0682	-.0528	-.0275	-.0283	.0046	-.0069	-.0288	-.0367	-.0812
110.000	.0000	-.1430	-.1069	-.0925	-.0852	-.0793	-.0702	-.0567	-.0403	-.0273	-.0107	-.0107	-.0153	-.0263	-.0689
120.000						-.0941								-.0174	
130.000						-.1272								-.0094	
140.000						-.1692								-.0138	
150.000						-.1944								-.0201	
160.000						-.2016								-.0260	
170.000						-.1922								-.0342	
180.000	-.2148	-.2107	-.1964	-.1975	-.1872	-.1839	-.1822	-.1431	-.1720	-.1517	-.1198	-.0955	.0741	-.0463	.0195

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0568		
70.000							-.0959	-.0998	.0000
80.000							-.1068	-.1560	-.1566
90.000	-.1021	-.0755	-.1078	-.1030	.0869	.0000	-.0914	-.1742	-.1862
100.000	-.1086	-.1145	-.1279	-.0062	.0262	-.0112			
110.000	-.0762	-.0994	.0078	.0845	.0885	.0033			
120.000						.0727			
130.000						.1977			
140.000						.2725			
150.000						.2081			
160.000						.1702			
170.000						.1931			
180.000	-.0660	.0308	.1364	.1519	.1739	.2240			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (RFB015)

MACH (8) = 1.500 ALPHA (9) = 8.606

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1332	.0919	-.0819												
70.000	.1240	.1066	-.0214												
80.000	.1297	.1190	.0202												
90.000			.0766	-.0207	-.2279	-.3016	-.3175	-.3238	-.3311	-.3629	-.3606	-.3652	-.3577	-.3287	-.2096
100.000						-.3016	-.3138	-.3258	-.3440	-.3602	-.3704	-.3842	-.3732	-.3721	-.2012
110.000						-.3144	-.3264	-.3443	-.3501	-.3777	-.3868	-.3813	-.3411	-.3306	-.2568
120.000						-.2859								.0000	
130.000						-.3787								-.2601	
140.000						-.4142								-.2528	
150.000						-.3772								-.2528	
160.000						-.3558								-.2548	
170.000						-.3331								-.2452	
180.000						-.3189	-.2876	-.2593	-.2479	-.2430	-.2362	-.2383	-.2352	-.2352	-.2309

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1427	-.1048	-.0785	-.0696	-.0641	-.0675	-.0557	-.0455	-.0350	-.0212	-.0089	-.0322	-.0643	-.0845	-.1020
100.000	-.1324	-.1135	-.0993	-.0833	-.0716	-.0780	-.0676	-.0633	-.0380	-.0508	-.0135	-.0306	-.0546	-.0612	-.1010
110.000	.0000	-.1209	-.1009	-.0932	-.0861	-.0838	-.0735	-.0635	-.0519	-.0393	-.0314	-.0298	-.0373	-.0518	-.0908
120.000						-.0817								-.0252	
130.000						-.0981								-.0048	
140.000						-.1131								-.0056	
150.000						-.1363								-.0138	
160.000						-.1782								-.0227	
170.000						-.1912								-.0291	
180.000	-.2321	-.2256	-.2069	-.2010	-.1931	-.1874	-.1874	-.1330	-.1386	-.1077	-.0804	-.0635	-.0475	-.0329	.0084

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
60.000							-.0858		
70.000							-.1146	-.1190	.0000
80.000							-.1220	-.1752	-.1748
90.000	-.1124	-.0741	-.1316	-.1423	.0850	.0000	-.1109	-.1815	-.2092
100.000	-.1245	-.1284	-.1521	-.0452	.0022	-.0446			
110.000	-.1001	-.1244	-.0662	.0741	.0771	-.0157			
120.000						.1233			
130.000						.2136			
140.000						.2469			
150.000						.2543			
160.000						.2169			
170.000						.2365			
180.000	-.0895	.0008	.1133	.1259	.1573	.1703			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = 1.150 ALPHA (1) = -8.28

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0690	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1834	.1412	-.1249												
70.000	.2310	.1521	-.0474												
80.000	.2696	.0740	-.0350												
90.000			-.1185	-.3892	.5747	-.6056	-.6134	-.5444	.4993	-.4[illegible]	[illegible]	[illegible]	.1854	-.1663	.1501
100.000						-.6045	-.6405	-.6205	-.5890	-.5199	-.3962	-.2984	-.2161	-.2107	-.1644
110.000						-.7533	-.7112	-.6499	-.5548	-.5179	-.4092	-.3825	.2993	-.2886	-.2565
120.000						-.5359								.0000	
130.000						-.5023								.3796	
140.000						-.4541								.3536	
150.000						-.3688								.3165	
160.000						-.2417								.2792	
170.000						-.2409								-.2498	
180.000						-.2482	-.2124	-.1855	-.2035	-.2188	-.2115	-.2036	-.2076	-.2078	-.2036

X/L	.4900	.4680	.4660	.5050	.5240	.5460	.5610	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.6880	[illegible]
PHI															
90.000	-.1208	-.1379	-.1344	-.1397	-.1568	-.1218	-.0467	.0134	.0626	.0845	.0897	.0903	.0875	.1081	.1570
100.000	-.1459	-.1595	-.1558	-.1554	-.1516	-.1585	-.1071	-.0553	.0035	.0234	.0409	.0527	.0597	.0459	.1177
110.000	.0000	-.2756	-.2541	-.2254	-.1979	-.1749	-.1159	-.0517	.0058	.0552	.0551	.0781	.0732	.1187	.1547
120.000						-.1834								.1520	
130.000						-.1826								.1517	
140.000						-.1683								.1447	
150.000						-.1312								.1402	
160.000						-.1538								.1381	
170.000						-.1272								.1444	
180.000	-.2281	-.2129	-.1838	-.1867	.1713	-.1353	-.1211	-.1056	-.0940	-.0703	-.0630	-.0629	-.0693	[illegible]	.0973

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0438		
70.000							-.0268	-.1010	.0000
80.000							-.0582	-.1663	-.1372
90.000	.1569	.2041	.1809	.1501	.4008	.0000	-.[illegible]6.5	.1412	-.1262
100.000	.1942	.1740	.1790	.1461	.1397	.0426			
110.000	.2065	.2405	.2455	.2195	.0942	-.0699			
120.000						-.2446			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.150 ALPHA (1) = -8.428

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
150.000						.0181			
140.000						.3379			
130.000						.4676			
120.000						.4086			
110.000						.3696			
100.000	.2069	.3888	.4654	.5271	.5621	.6613			

MACH (1) = 1.100 ALPHA (2) = -4.131

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1391	.0964	-.1598												
70.000	.1843	.1215	-.0763												
80.000	.2083	.0865	-.0536												
90.000			-.1032	-.3865	-.5940	-.6265	-.6302	-.5682	-.5289	-.5322	-.3573	-.2754	-.2263	-.2115	-.1690
100.000						-.6280	-.6493	-.6413	-.6394	-.5693	-.3994	-.2987	-.2521	-.2446	-.1912
110.000						-.7462	-.7034	-.6756	-.6256	-.5502	-.4878	-.3519	-.2879	-.2775	-.2279
120.000						-.5949								.0000	
130.000						-.6087								-.4173	
140.000						-.5718								-.3960	
150.000						-.5085								-.3758	
160.000						-.4085								-.3530	
170.000						-.3756								-.3262	
180.000						-.3776	-.3223	-.2914	-.2923	-.2976	-.2802	-.2831	-.2896	-.2850	-.2782

X/L	.4500	.4680	.4860	.5050	.5240	.5450	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1444	-.1371	-.1270	-.1304	-.1145	-.0745	-.0116	.0551	.0824	.0970	.1009	.0909	.0692	.0730	.0994
100.000	-.1703	-.1626	-.1515	-.1409	-.1275	-.0926	-.0470	.0210	.0514	.0605	.0845	.0827	.0745	.0903	.1025
110.000	.0000	-.1978	-.1881	-.1873	-.1673	-.1335	-.0912	-.0183	.0156	.0378	.0550	.0641	.0697	.0812	.1034
120.000						-.1226								.1284	
130.000						-.1449								.1373	
140.000						-.1457								.1331	
150.000						-.1315								.1333	
160.000						-.1444								.1326	
170.000						-.1451								.1249	
180.000	-.2709	-.2530	-.2287	-.2284	-.1976	-.1569	-.1444	-.1215	-.1042	-.0720	-.0172	.0307	.0743	.1156	.2244

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.100 ALPHA (2) = -4.131

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0206		
70.000							-.0373	-.1236	.0000
80.000							-.0551	-.1732	-.1659
90.000	.0828	.1380	.1266	.1047	.3361	.0000	-.0652	-.1624	-.1594
100.000	.0805	.1465	.1254	.1427	.0879	.0152			
110.000	.1394	.1888	.1990	.1769	.0788	-.0694			
120.000						-.2008			
130.000						.0676			
140.000						.3235			
150.000						.4187			
160.000						.3506			
170.000						.3322			
180.000	.1415	.3294	.3942	.4437	.4826	.5589			

MACH (1) = 1.102 ALPHA (3) = -1.968

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1105	.0814	-.1583												
70.000	.1574	.1149	-.0733												
80.000	.1845	.0807	-.0477												
90.000			-.0911	-.3760	-.5936	-.6254	-.6302	-.5757	-.5256	-.5038	-.3631	-.2785	-.2218	-.1992	-.1622
100.000						-.6279	-.6482	-.6422	-.6411	-.5652	-.3734	-.2977	-.2409	-.2341	-.1815
110.000						-.7284	-.6970	-.6759	-.6438	-.5634	-.4377	-.3102	-.2593	-.2435	-.2055
120.000						-.6081								.0000	
130.000						-.6425								-.4166	
140.000						-.6161								-.4057	
150.000						-.5549								-.3895	
160.000						-.4670								-.3720	
170.000						-.4234								-.3474	
180.000						-.4234	-.3725	-.3333	-.3306	-.3309	-.3131	-.3157	-.3075	-.3098	-.2898

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.634	.6540	.6730	.6850	.7100
PHI															
90.000	-.1321	-.1323	-.1249	-.1260	-.1150	-.0660	.0040	.0702	.0890	.0965	.0978	.0744	.0434	.0402	.0552
100.000	-.1599	-.1554	-.1435	-.1381	-.1206	-.0868	-.0220	.0291	.0717	.0753	.0926	.0807	.0640	.0585	.0733
110.000	.0000	-.1709	-.1643	-.1583	-.1453	-.1150	-.0684	-.0109	.0311	.0479	.0620	.0613	.0569	.0691	.0842
120.000						-.1059								.1122	
130.000						-.1291								.1277	
140.000						-.1344								.1224	
150.000						-.1158								.1222	

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.102 ALPHA (3) = -1.968

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.1241								.1186	
170.000						-.1276								.1098	
180.000	-.2854	-.2661	-.2404	-.2155	-.1715	-.1335	-.1263	-.1086	-.0884	-.0557	.0038	.0502	.0747	.1020	.2008

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0130		
70.000							-.0369	-.1274	.0000
80.000							-.0597	-.1792	-.1802
90.000	.0488	.1048	.1145	.0806	.3033	.0000	-.0712	-.1769	-.1776
100.000	.0505	.1207	.1270	.1223	.0642	-.0043			
110.000	.1263	.1650	.1842	.1647	.0746	-.0727			
120.000						-.1792			
130.000						.0910			
140.000						.3236			
150.000						.3903			
160.000						.3179			
170.000						.2892			
180.000	.1325	.3[illegible]2	.3635	.4074	.4398	.5138			

MACH (1) = 1.099 ALPHA (4) = .186

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0570	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0556	.0322	-.2034												
70.000	.1008	.0603	-.1153												
80.000	.1256	.0278	-.0836												
90.000			-.1180	-.4013	-.6236	-.6509	-.6223	-.5577	-.4814	-.4845	-.4014	-.2969	-.2327	-.2233	-.2036
100.000						-.6527	-.6423	-.5334	-.5948	-.4984	-.3744	-.3000	-.2436	-.2490	-.2032
110.000						-.7471	-.6869	-.6683	-.6452	-.5313	-.3806	-.2997	-.2671	-.2606	-.2242
120.000						-.6507								.0000	
130.000						-.7112								-.3802	
140.000						-.6895								-.4280	
150.000						-.6321								-.4283	
160.000						-.5562								-.4148	
170.000						-.5041								-.3907	
180.000						-.5008	-.4179	-.3719	-.3719	-.3726	-.3590	-.3584	-.3532	-.3483	-.3209

X/L	.4500	.4680	.4860	.5[illegible]50	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.099 ALPHA (4) = .186

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1650	-.1391	-.1233	-.1204	-.1114	-.0635	.0091	.0467	.0641	.0500	.0710	.0491	.0256	-.0015	-.0016
100.000	-.1748	-.1456	-.1286	-.1286	-.1070	-.0720	-.0318	.0222	.0538	.0339	.0728	.0615	.0424	.0342	.0178
110.000	.0000	-.1559	-.1374	-.1409	-.1364	-.1150	-.0557	-.0077	.0186	.0343	.0597	.0623	.0652	.0508	.0343
120.000						-.0976								.0980	
130.000						-.1105								.0987	
140.000						-.1263								.1058	
150.000						-.1177								.1071	
160.000						-.1216								.1111	
170.000						-.1328								.1063	
180.000	-.2854	-.2525	-.2065	-.1783	-.1611	-.1459	-.1441	-.1238	-.1096	-.0501	.0043	.0718	.0847	.0993	.1615

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0060		
70.000							-.0512	-.1495	.0000
80.000							-.0779	-.1996	-.1953
90.000	-.0247	.0218	.0184	.0065	.2427	.0000	-.0945	-.2031	-.1909
100.000	-.0174	.0491	.0493	.0532	.0043	-.0316			
110.000	.0699	.1029	.1241	.1048	.0525	-.0858			
120.000						-.1633			
130.000						.1128			
140.000						.3170			
150.000						.3482			
160.000						.2776			
170.000						.2485			
180.000	.0703	.2474	.2982	.3333	.3896	.4698			

MACH (1) = 1.101 ALPHA (5) = 2.417

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0301	.0172	-.2178												
70.000	.0767	.0550	-.1223												
80.000	.0923	.0308	-.0825												
90.000			-.0974	-.3837	-.5851	-.6003	-.5639	-.4864	-.4428	-.4802	-.4459	-.3315	-.2339	-.2162	-.2130
100.000						-.6045	-.6198	-.5752	-.4929	-.4737	-.4152	-.3291	-.2442	-.2371	-.1934
110.000						-.7066	-.6714	-.6527	-.5931	-.4809	-.3793	-.3157	-.2581	-.2523	-.1980
120.000						-.6403								.0000	
130.000						-.7203								-.3029	
140.000						-.7161								-.3361	
150.000						-.6574								-.3603	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.101 ALPHA (5) = 2.417

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2810	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.5949								-.3726	
170.000						-.5418								-.3554	
180.000						-.5304	-.4720	-.4257	-.4118	-.4059	-.3833	-.3652	-.3285	-.3209	-.2884

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1609	-.1373	-.1190	-.1082	-.0840	-.0308	.0265	.0629	.0702	.0593	.0510	.0259	-.0114	-.0433	-.0552
100.000	-.1683	-.1486	-.1226	-.1111	-.0865	-.0383	.0037	.0427	.0633	.0423	.0587	.0356	.0063	-.0039	-.0243
110.000	.0000	-.1407	-.1132	-.1109	-.0961	-.0527	-.0112	.0289	.0514	.0573	.0568	.0481	.0481	.0267	.0031
120.000						-.0578								.0809	
130.000						-.0927								.0985	
140.000						-.1017								.1038	
150.000						-.0909								.1143	
160.000						-.1049								.1207	
170.000						-.1095								.1191	
180.000	-.2585	-.2166	-.1842	-.1625	-.1407	-.1227	-.1115	-.0913	-.0545	-.0077	.0297	.0587	.0856	.1114	.1648

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0218		
70.000							-.0666	-.1565	.0000
80.000							-.0889	-.2081	-.2081
90.000	-.0662	.0117	.0046	-.0115	.2181	.0000	-.1049	-.2133	-.2065
100.000	-.0602	.0297	.0053	.0427	-.0149	-.0704			
110.000	.0405	.0858	.1092	.1007	.0286	-.1082			
120.000						-.1617			
130.000						.1132			
140.000						.2852			
150.000						.2854			
160.000						.2361			
170.000						.2456			
180.000	.0522	.2453	.2771	.3100	.3430	.4102			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.098 ALPHA (6) = 4.410

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0146	-.0383	-.2307												
70.000	.0227	.0215	-.1471												
80.000	.0337	.0052	-.1003												
90.000			-.1017	-.3793	-.5698	-.5689	-.5154	-.4607	-.4645	-.5001	-.4615	-.3884	-.2786	-.2451	-.2190
100.000						-.5693	-.5866	-.5190	-.4822	-.4908	-.4673	-.3753	-.2634	-.2556	-.2093
110.000						-.6922	-.6650	-.6165	-.5515	-.5092	-.4272	-.3407	-.2659	-.2585	-.2044
120.000						-.6365								.0000	
130.000						-.7431								-.2958	
140.000						-.7576								-.3150	
150.000						-.6988								-.3204	
160.000						-.6452								-.3275	
170.000						-.5870								-.3373	
180.000						-.5749	-.5269	-.4846	-.4662	-.4454	-.4188	-.3841	-.3335	-.3161	-.2634

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1756	-.1539	-.1264	-.1148	-.0733	-.0201	.0266	.0620	.0649	.0374	.0211	-.0082	-.0647	-.0953	-.1003
100.000	-.1814	-.1662	-.1382	-.1188	-.0778	-.0289	.0087	.0430	.0616	.0357	.0352	.0011	-.0312	-.0466	-.0774
110.000	.0000	-.1449	-.1229	-.1092	-.0762	-.0371	-.0013	.0328	.0489	.0489	.0317	.0129	-.0024	-.0216	-.0463
120.000						-.0394								.0511	
130.000						-.0630								.0779	
140.000						-.0861								.0779	
150.000						-.0820								.0835	
160.000						-.0946								.0932	
170.000						-.1027								.0907	
180.000	-.2327	-.2046	-.1798	-.1555	-.1334	-.1115	-.0940	-.0667	-.0280	.0146	.0330	.0467	.0527	.0881	.1366

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0503		
70.000							-.0959	-.1774	.0000
80.000							-.1199	-.2279	-.2373
90.000	-.1302	-.0469	-.0387	-.0434	.1833	.0000	-.1298	-.2391	-.2344
100.000	-.1192	-.0104	.0094	.0108	-.0448	-.1213			
110.000	-.0017	.0604	.0923	.0618	-.0155	-.1547			
120.000						-.1590			
130.000						.0874			
140.000						.2466			
150.000						.2398			
160.000						.2183			
170.000						.2700			
180.000	.0021	.2079	.2412	.2723	.3018	.3387			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB016)

MACH (1) = 1.151 ALPHA (7) = 8.767

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0765	-.1279	-.2703												
70.000	-.0507	-.0756	-.1810												
80.000	-.0525	-.0350	-.1185												
90.000			-.0937	-.3639	-.3627	-.4476	-.4054	-.4201	-.4065	-.3900	-.3709	-.3689	-.3354	-.3098	-.2606
100.000						-.4367	-.4623	-.4521	-.4339	-.4172	-.3978	-.4103	-.3152	-.3060	-.2313
110.000						-.6618	-.5496	-.5082	-.4877	-.5015	-.4623	-.3524	-.2727	-.2794	-.2207
120.000						-.6372								.0000	
130.000						-.7772								-.2187	
140.000						-.8159								-.2201	
150.000						-.7585								-.2246	
160.000						-.7063								-.2259	
170.000						-.6574								-.2461	
180.000						-.6429	-.5987	-.5480	-.5200	-.4977	-.4512	-.3755	-.3081	-.2671	-.1941

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2098	-.1959	-.1569	-.1102	-.0416	.0037	.0309	.0379	.0311	-.0110	-.0352	-.0892	-.1448	-.1652	-.1885
100.000	-.2100	-.1997	-.1581	-.1108	-.0419	-.0050	.0111	.0207	.0333	-.0233	-.0219	-.0723	-.1115	-.1161	-.1754
110.000	.0000	-.1668	-.1375	-.0979	-.0560	-.0127	.0096	.0238	.0262	.0093	-.0179	-.0495	-.0657	-.0833	-.1407
120.000						-.0141								.0001	
130.000						-.0157								.0098	
140.000						-.0297								.0236	
150.000						-.0257								.0312	
160.000						-.0504								.0274	
170.000						-.0618								.0252	
180.000	-.1615	-.1382	-.1238	-.1117	-.0988	-.0738	-.0585	-.0297	.0051	.0266	.0365	.0274	.0254	.0240	.0689

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1040		
70.000							-.1480	-.2285	.0000
80.000							-.1677	-.2805	-.2962
90.000	-.2295	-.1398	-.1049	-.0927	.1528	.0000	-.1778	-.2922	-.2976
100.000	-.2319	-.0857	-.0732	-.0257	-.0880	-.1703			
110.000	-.0835	.0102	.0563	.0277	-.0461	-.2160			
120.000						-.1312			
130.000						.0987			
140.000						.2043			
150.000						.2882			
160.000						.2771			
170.000						.3656			
180.000	-.0787	.1419	.1982	.2902	.3112	.3223			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.250

MACH (1) = 2.019 ALPHA (1) = -7.682

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4818	.5016	.3571												
70.000	.4726	.5010	.4015												
80.000	.4664	.5093	.4335												
90.000			.4702	.3417	.1474	.0686	.0475	.0233	.0141	-.0109	-.0114	-.0173	-.0136	-.0101	-.0145
100.000						.0674	.0475	.0316	.0088	-.0[illegible]	-.0[illegible]4	-.0321	-.0169	-.0104	-.0072
110.000						.0331	.0194	.0061	-.0007	-.0232	-.0303	-.0248	-.0175	-.0175	.0008
120.000						.1071								.0000	
130.000						.0129								.0233	
140.000						-.0504								.0253	
150.000						-.0234								.0289	
160.000						-.0161								.0307	
170.000						-.0300								.0304	
180.000						-.0353	-.0019	.0244	.0336	.0345	.0372	.0348	.0348	.0304	.0301

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.617[illegible]	.636	.654[illegible]	.673[illegible]	.6880	.710[illegible]
PHI															
90.000	-.0010	-.0007	.0102	.0197	.0380	.0578	.0689	.0752	.0820	.0919	.[illegible]	.[illegible]	.1013	.0982	.1129
100.000	-.0010	-.0045	.0011	.0105	.0223	.0371	.0556	.0695	.0805	.0749	.0911	.0937	.0976	.1014	.0904
110.000	.0000	.0064	.0105	.0135	.0155	.0215	.0363	.0627	.0760	.0790	.0795	.0831	.0911	.0943	.0000
120.000						.0342								.0674	
130.000						.0307								.0[illegible]	
140.000						.0340								.0490	
150.000						.0417								.0384	
160.000						.0390								.0301	
170.000						.0363								.0182	
180.000	.0285	.0300	.0324	.0345	.0315	.0289	.0233	.0600	.0171	.0155	.0[illegible]	.0141	.0129	.0036	.1063

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1231		
70.000							.1191	.1183	.0000
80.000							.1290	.0955	.0775
90.000	.0556	.0377	.0357	.0513	.0000	.0000	.1437	.0913	.0566
100.000	.0556	.0383	.0403	.0946	.1734	.1884			
110.000	.0754	.0522	.0510	.1839	.2428	.1851			
120.000						.3541			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.019 ALPHA (1) = -7.882

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.5256			
140.000						.3704			
150.000						.3248			
160.000						.3859			
170.000						.4326			
180.000	.0825	.0711	.0533	.1771	.3442	.4704			

MACH (1) = 2.018 ALPHA (2) = -5.731

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4662	.4677	.3287												
70.000	.4502	.4677	.3704												
80.000	.4322	.4759	.3967												
90.000			.4283	.3151	.1105	.0514	.0331	.0059	-.0003	-.0213	-.0245	-.0319	-.0311	-.0311	-.0400
100.000						.0505	.0366	.0189	-.0024	-.0231	-.0349	-.0488	-.0400	-.0476	-.0402
110.000						.0239	.0130	-.0006	-.0086	-.0378	-.0482	-.0452	-.0423	-.0485	-.0276
120.000						.0922								.0000	
130.000						-.0054								-.0141	
140.000						-.0804								-.0126	
150.000						-.0621								-.0124	
160.000						-.0482								-.0035	
170.000						-.0588								-.0053	
180.000						-.0694	-.0346	-.0101	.0023	.0047	.0076	.0056	.0050	.0038	.0029

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0288	-.0279	-.0191	-.0156	-.0015	.0135	.0322	.0437	.0523	.0606	.0715	.0721	.0718	.0700	.0994
100.000	-.0297	-.0309	-.0256	-.0174	-.0100	-.0006	.0192	.0345	.0508	.0482	.0647	.0650	.0692	.0745	.0636
110.000	.0000	-.0200	-.0150	-.0109	-.0109	-.0082	.0020	.0204	.0384	.0490	.0529	.0567	.0647	.0665	.0000
120.000						.0041								.0417	
130.000						.0071								.0337	
140.000						.0082								.0201	
150.000						.0139								.0100	
160.000						.0133								.0032	
170.000						.0094								-.0052	
180.000	.0026	.0035	.0059	.0076	.0038	.0032	-.0028	.0215	-.0082	-.0096	-.0058	-.0093	-.0105	-.0135	.0594

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.018 ALPHA (2) = -5.731

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0884		
70.000							.0879	.0837	.0900
80.000							.0972	.0643	.0477
90.000	.0207	.0136	.0086	0162	.0000	.0000	.1146	.0657	.0313
100.000	.0283	.0134	.0165	.0484	.1288	.1503			
110.000	.0458	.0278	.0280	.1341	.2131	.1560			
120.000						.3304			
130.000						.4882			
140.000						.3166			
150.000						.2553			
160.000						.3281			
170.000						.3734			
180.000	.0551	.0424	.0103	.1466	.2938	.3967			

MACH (1) = 2.018 ALPHA (3) = -3.643

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4575	.4270	.2942												
70.000	.4362	.4303	.3303												
80.000	.4126	.4338	.3569												
90.000			.3895	.2803	.0863	.0357	.0183	-.0092	-.0166	-.0343	-.0369	-.0461	-.0473	-.0514	-.0622
100.000						.0334	.0239	.0056	-.0160	-.0352	-.0467	-.0611	-.0591	-.0655	-.0602
110.000						.0127	.0023	-.0092	-.0216	-.0496	-.0626	-.0643	-.0591	-.0655	-.0538
120.000						.0789								.0000	
130.000						-.0243								-.0435	
140.000						-.1049								-.0435	
150.000						-.0910								-.0655	
160.000						-.0736								.0432	
170.000						-.0848								-.0870	
180.000						-.0934	-.0629	-.0425	-.0322	-.0237	-.0218	-.0203	-.0165	.0197	-.0185

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.617	.638	.6570	.6730	.6863	.7130
PHI															
90.000	-.0535	-.0529	-.0435	-.0411	-.0311	-.0226	-.0028	.0136	.0242	.0369	.0461	.0470	.0526	.0487	.0346
100.000	-.0538	-.0561	-.0502	-.0417	-.0361	-.0303	-.0147	.0002	.0237	.0236	.0410	.0440	.0458	.0514	.0427
110.000	.0000	-.0458	-.0417	-.0391	-.0367	-.0344	-.0264	-.0123	.0056	.0213	.0313	.0443	.0413	.0458	.0300
120.000						-.0212								.0174	
130.000						-.0192								.0076	
140.000						-.0162								-.0055	
150.000						-.0123								-.0141	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.018 ALPHA (3) = -3.643

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0141								-.0210	
170.000						-.0174								-.0303	
160.000	-.0203	-.0200	-.0162	-.0168	-.0203	-.0231	-.0264	-.0097	-.0312	-.0321	-.0294	-.0335	-.0341	-.0359	.0470

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0637		
70.000							.0592	.0532	.0000
60.000							.0724	.0341	.0175
90.000	.0024	-.0190	-.0104	-.0070	.0000	.0000	.0853	.0398	.0069
100.000	.0100	-.0062	-.0067	.0204	.0947	.1207			
110.000	.0247	.0046	.0038	.0955	.1772	.1269			
120.000						.3116			
130.000						.4530			
140.000						.2655			
150.000						.2062			
160.000						.2756			
170.000						.3209			
180.000	.0320	.0170	-.0025	.1345	.2495	.3414			

MACH (1) = 2.018 ALPHA (4) = -1.558

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4379	.3859	.2609												
70.000	.4264	.3924	.2928												
60.000	.3945	.3957	.3156												
90.000			.3519	.2393	.0667	.0195	.0011	-.0251	-.0316	-.0455	-.0496	-.0591	-.0631	-.0660	-.0784
100.000						.0192	.0103	-.0059	-.0272	-.0458	-.0582	-.0750	-.0740	-.0816	-.0810
110.000						.0082	-.0036	-.0195	-.0346	-.0623	-.0765	-.0807	-.0722	-.0836	-.0790
120.000						.0644								.0000	
130.000						-.0399								-.0704	
140.000						-.1267								-.0684	
150.000						-.1140								-.0684	
160.000						-.0975								-.0581	
170.000						-.1072								-.0490	
180.000						-.1146	-.0903	-.0720	-.0597	-.0535	-.0449	-.0396	-.0402	-.0417	-.0408

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.3730	.6880	.7100
PHI															

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.010 ALPHA (4) = -1.558

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0748	-.0735	-.0652	-.0623	-.0532	-.0429	-.0258	-.0081	.0041	.0139	.0248	.0245	.0283	.0283	.0549
100.000	-.0784	-.0799	-.0752	-.0646	-.0588	-.0435	-.0336	-.0213	.0002	.0038	.0180	.0215	.0254	.0316	.0182
110.000	.0000	-.0726	-.0670	-.0640	-.0614	-.0564	-.0476	-.0345	-.0117	.0026	.0088	.0136	.0201	.0221	.0000
120.000						-.0488								-.0037	
130.000						-.0461								-.0129	
140.000						-.0413								-.0231	
150.000						-.0380								-.0335	
160.000						-.0383								-.0410	
170.000						-.0410								-.0506	
180.000	-.0435	-.0425	-.0426	-.0400	-.0435	-.0440	-.0482	-.0404	-.0503	-.0527	-.0512	-.0536	-.0551	-.0554	-.0176

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0367		
70.000							.0336	.0302	.0000
80.000							.0513	.0150	-.0044
90.000	-.0190	-.0304	-.0318	-.0301	.0000	.0000	.0667	.0153	-.0149
100.000	-.0136	-.0275	-.0287	.0004	.0793	.1047			
110.000	.0015	-.0187	-.0156	.0787	.1505	.1131			
120.000						.2919			
130.000						.4077			
140.000						.2116			
150.000						.1553			
160.000						.2230			
170.000						.2711			
180.000	.0083	-.0082	-.0156	.1234	.2095	.2846			

MACH (1) = 2.010 ALPHA (5) = .531

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3760	.3940	.4050	.4310
PHI															
60.000	.4202	.3517	.2281												
70.000	.4035	.3567	.2577												
80.000	.3732	.3576	.2796												
90.000			.3097	.2030	.0425	.0011	-.0136	-.0427	-.0473	-.0553	-.0637	-.0727	-.0761	-.0802	-.0443
100.000						.0002	-.0042	-.0207	-.0384	-.0592	-.0709	-.0863	-.0884	-.0966	-.0999
110.000						.0023	-.0142	-.0290	-.0455	-.0765	-.0944	-.0963	-.0878	-.1051	-.1053
120.000						.0443								.0000	
130.000						-.0541								-.0998	
140.000						-.1447								-.1066	
150.000						-.1373								-.0866	

AMES 66-03D PRESSURE VENTING - INTEG. VEHICLE (9E8017)

MACH (1) = 2.018 ALPHA (3) = .531

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1196								-.0784	
170.000						-.1246								-.0664	
180.000						-.1329	-.1141	-.0952	-.0822	-.0742	-.0650	-.0614	-.0579	-.0611	-.0617

X/L	.4500	.4680	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0901	-.0902	-.0811	-.0773	-.0652	-.0447	-.0294	-.0198	-.0144	-.0085	.0038	.0032	.0076	.0050	.0362
100.000	-.0984	-.1002	-.0952	-.0828	-.0731	-.0579	-.0377	-.0264	-.0156	-.0156	-.0034	-.0007	.0032	.0100	-.0028
110.000	.0000	-.0972	-.0914	-.0867	-.0802	-.0720	-.0554	-.0359	-.0207	-.0155	.0153	-.0111	-.0037	-.0034	.0000
120.000						-.0758								-.0315	
130.000						-.0682								-.0333	
140.000						-.0655								-.0386	
150.000						-.0613								-.0182	
160.000						-.0601								-.0566	
170.000						-.0622								-.0655	
180.000	-.0626	-.0655	-.0632	-.0620	-.0640	-.0640	-.0682	-.0458	-.0712	-.0724	-.0706	-.0712	-.0718	-.0718	.0140

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0032		
70.000							.0077	.0099	.0000
80.000							.0302	.0004	-.0209
90.000	-.0287	-.0452	-.0483	-.0386	.0000	.0000	.0527	.0026	-.0265
100.000	-.0292	-.0446	-.0489	-.0341	.0377	.0881			
110.000	-.0167	-.0378	-.0398	.0371	.1379	.1143			
120.000						.2892			
130.000						.3621			
140.000						.1613			
150.000						.1208			
160.000						.1767			
170.000						.2169			
180.000	-.0139	-.0250	-.0306	.1148	.1748	.2330			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.010 ALPHA (6) = 2.590

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3941	.3175	.1957												
70.000	.3727	.3250	.2218												
80.000	.3422	.3199	.2398												
90.000			.2704	.1675	.0320	-.0169	-.0290	-.0300	-.0441	-.0500	-.0539	-.0645	-.0681	-.0728	-.0898
100.000						-.0175	-.0169	-.0314	-.0450	-.0530	-.0625	-.0799	-.0816	-.0925	-.0951
110.000						-.0083	-.0240	-.0385	-.0554	-.0605	-.0914	-.0937	-.0966	-.1043	-.1016
120.000						.0302								.0000	
130.000						-.0691								-.1223	
140.000						-.1591								-.1193	
150.000						-.1558								-.1042	
160.000						-.1381								-.0955	
170.000						-.1404								-.0961	
180.000						-.1473	-.1299	-.1136	-.1018	-.0911	-.0832	-.0816	-.0802	-.0954	.0775

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5810	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7105
PHI															
90.000	-.0883	-.0915	-.0889	-.0904	-.0892	-.0942	-.0925	-.0871	-.0751	-.0484	-.0186	.0144	.0364	-.0467	.0320
100.000	-.0955	-.1030	-.1039	-.0966	-.0960	-.0942	-.0958	-.0916	-.0817	-.0685	-.0336	-.0183	-.0100	-.0959	.0152
110.000	.0000	-.1066	-.1042	-.1027	-.0998	-.1004	-.0976	-.0910	-.0862	-.0742	-.0552	.0351	.1201	-.0147	.0000
120.000						-.0966								-.0564	
130.000						-.0913								-.0619	
140.000						-.0856								-.0755	
150.000						-.0802								-.0758	
160.000						-.0799								-.0682	
170.000						-.0799								-.0764	
180.000	-.0810	-.0798	-.0789	-.0762	-.0804	-.0826	-.0841	-.0922	-.0838	-.0847	-.0842	-.0881	-.0884	-.0959	.0039

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0184		
70.000							-.0130	-.0057	.0000
80.000							.0155	-.0159	-.0366
90.000	-.0512	-.0841	-.0543	-.0603	.0000	.0000	.0406	-.0074	-.0431
100.000	-.0466	-.0815	-.0546	-.0489	.0118	.0758			
110.000	-.0295	-.0501	-.0495	.0113	.1257	.1153			
120.000						.2665			
130.000						.3226			
140.000						.3105			
150.000						.0944			
160.000						.1448			
170.000						.1761			
180.000	-.0278	-.0398	-.0395	.0963	.1415	.2017			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.018 ALPHA (7) = 4.804

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3728	.2873	.1725												
70.000	.3429	.2911	.1935												
80.000	.3095	.2843	.2077												
90.000			.2361	.1370	.0014	-.0290	-.0352	-.0568	-.0547	-.0624	-.0674	-.0778	-.0826	-.0870	-.1041
100.000						-.0314	-.0255	-.0323	-.0429	-.0586	-.0719	-.0914	-.0958	-.1082	-.1123
110.000						-.0204	-.0320	-.0435	-.0538	-.0790	-.0929	-.1029	-.1111	-.1211	-.1241
120.000						.0112								.0000	
130.000						-.0860								-.1491	
140.000						-.1777								-.1382	
150.000						-.1762								-.1270	
160.000						-.1620								-.1144	
170.000						-.1605								-.1038	
180.000						-.1670	-.1496	-.1322	-.1183	-.1085	-.1006	-.0976	-.0982	-.0985	-.0982

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1023	-.1035	-.0994	-.0985	-.0950	-.0906	-.0833	-.0710	-.0605	-.0471	-.0291	-.0279	-.0219	-.0225	.0060
100.000	-.1147	-.1188	-.1176	-.1085	-.1041	-.1035	-.0952	-.0904	-.0722	-.0644	-.0417	-.0330	-.0267	-.0183	-.0331
110.000	.0000	-.1279	-.1268	-.1224	-.1182	-.1150	-.1090	-.0994	-.0883	-.0761	-.0617	-.0516	-.0408	-.0372	.0000
120.000						-.1244								-.0809	
130.000						-.1129								-.0776	
140.000						-.1039								-.0803	
150.000						-.0982								-.0854	
160.000						-.0964								-.0908	
170.000						-.0958								-.0961	
180.000	-.0977	-.0968	-.0953	-.0935	-.0944	-.0967	-.0991	-.1012	-.1027	-.1024	-.0994	-.1015	-.0997	-.0994	-.0340

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0577		
70.000							-.0436	-.0288	.0000
80.000							-.0053	-.0333	-.0543
90.000	-.0604	-.0741	-.0706	-.0817	.0000	.0000	.0263	-.0217	-.0577
100.000	-.0573	-.0721	-.0715	-.0721	-.0445	.0643			
110.000	-.0448	-.0664	-.0718	-.0329	.0944	.1231			
120.000						.3115			
130.000						.2949			
140.000						.0578			
150.000						.0663			
160.000						.1046			
170.000						.1214			
180.000	-.0431	-.0650	-.0147	.0783	.1119	.1848			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.018 ALPHA (8) = 6.820

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3477	.2631	.1500												
70.000	.3042	.2651	.1663												
80.000	.2717	.2489	.1784												
90.000			.1968	.1095	-.0136	-.0420	-.0530	-.0781	-.0760	-.0790	-.0831	-.0905	-.0950	-.0971	-.1109
100.000						-.0382	-.0358	-.0468	-.0562	-.0716	-.0861	-.1047	-.1082	-.1188	-.1212
110.000						-.0267	-.0367	-.0497	-.0657	-.0917	-.1059	-.1165	-.1259	-.1341	-.1365
120.000						-.0036								.0000	
130.000						-.0991								-.1765	
140.000						-.1910								-.1621	
150.000						-.1934								-.147[illegible]	
160.000						-.1795								-.1[illegible]	
170.000						-.1757								-.1[illegible]	
180.000						-.1798	-.1657	-.1494	-.1364	-.123[illegible]	-.1160	-.1144	-.1147	-.1141	-.1135

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6175	.6365	.6540	.6730	.6880	.7100
PHI															
90.000	-.1059	-.1071	-.1000	-.0959	-.0812	-.0597	-.0492	-.0459	-.0459	-.0402	-.0252	-.0309	-.0276	-.0309	-.0121
100.000	-.1218	-.1247	-.1230	-.1118	-.1024	-.0841	-.0699	-.0642	-.0540	-.0573	-.0435	-.0387	-.0357	-.0306	-.0476
110.000	.0000	-.1386	-.1371	-.1327	-.1289	-.1165	-.1016	-.0845	-.0752	-.0738	-.0698	-.0650	-.0555	-.0543	.0000
120.000						-.1518								-.1249	
130.000						-.1324								-.0995	
140.000						-.1244								-.0953	
150.000						-.1157								-.0941	
160.000						-.1148								-.0953	
170.000						-.1133								-.0998	
180.000	-.1127	-.1133	-.1124	-.1100	-.1127	-.1136	-.1145	-.1001	-.1151	-.1151	-.1109	-.1091	-.1058	-.1046	-.0513

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0872		
70.000							-.0798	-.0526	.0000
80.000							-.0814	-.0523	.0713
90.000	-.0712	-.0828	-.0856	-.1001	.0000	.0000	.0043	-.0396	-.0733
100.000	-.0680	-.0845	-.0839	-.0908	-.0893	.0378			
110.000	-.0587	-.0802	-.0956	-.0706	.0527	.1203			
120.000						.3111			
130.000						.3021			
140.000						.0153			
150.000						.0502			
160.000						.0947			
170.000						.0812			
180.000	-.0592	-.0828	-.0016	.0613	.0882	.1611			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB017)

MACH (1) = 2.018 ALPHA (9) = 8.961

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3257	.2425	.1196												
70.000	.2768	.2410	.1391												
80.000	.2351	.2188	.1480												
90.000			.1631	.0769	-.0450	-.0766	-.0849	-.1076	-.1032	-.0985	-.1002	-.1035	-.1036	-.1039	-.1050
100.000						-.0710	-.0633	-.0722	-.0816	-.0934	-.1014	-.1165	-.1174	-.1268	-.1218
110.000						-.0429	-.0562	-.0710	-.0860	-.1091	-.1212	-.1300	-.1377	-.1447	-.1439
120.000						-.0184								.0000	
130.000						-.1104								-.2036	
140.000						-.2062								-.1862	
150.000						-.2097								-.1695	
160.000						-.1955								-.1518	
170.000						-.1887								-.1392	
180.000						-.1908	-.1771	-.1626	-.1493	-.1384	-.1316	-.1303	-.1377	-.1318	-.1324

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0930	-.0841	-.0579	-.0491	-.0435	-.0400	-.0381	-.0372	-.0387	-.0387	-.0231	-.0333	-.0312	-.0378	-.0127
100.000	-.1174	-.1085	-.0988	-.0750	-.0582	-.0550	-.0522	-.0534	-.0510	-.0591	-.0474	-.0453	-.0441	-.0411	-.0577
110.000	.0000	-.1314	-.1247	-.1114	-.0935	-.0859	-.0800	-.0773	-.0773	-.0800	-.0824	-.0794	-.0704	-.0710	.0000
120.000						-.1755								-.1686	
130.000						-.1411								-.1483	
140.000						-.1327								-.1147	
150.000						-.1303								-.1106	
160.000						-.1294								-.1082	
170.000						-.1282								-.1079	
180.000	-.1317	-.1297	-.1279	-.1258	-.1270	-.1270	-.1270	-.1016	-.1237	-.1210	-.1141	-.1118	-.1094	-.1094	-.0600

X/L	.7290	.7470	.7570	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1040		
70.000							-.1091	-.0730	.0000
80.000							-.0563	-.0694	-.0861
90.000	-.0765	-.0904	-.0924	-.1103	.0000	.0000	-.0129	-.0586	-.0869
100.000	-.0756	-.0918	-.0918	-.1046	-.1097	.0145			
110.000	-.0696	-.0907	-.1080	-.0969	-.0073	.1170			
120.000						.2778			
130.000						.2499			
140.000						-.0183			
150.000						.0294			
160.000						.0812			
170.000						.0733			
180.000	-.0736	-.0936	-.0059	.0405	.0716	.1539			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.500

MACH (1) = 1.747 ALPHA (1) = -8.412

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5106	.4738	.3218												
70.000	.5435	.4918	.3832												
80.000	.5410	.5070	.4453												
90.000			.4980	.2597	.0856	-.0122	-.0264	-.0386	.0417	[illegible]	[illegible]	[illegible]	-.0383	-.0322	[illegible]
100.000						-.0137	-.0268	-.0392	-.0566	-.0762	-.0769	-.0790	-.0483	-.0524	-.0092
110.000						-.0476	-.0543	-.0643	-.0651	-.0852	-.0798	-.0557	-.0414	-.0491	-.0225
120.000						.0380								.0000	
130.000						-.0548								.0128	
140.000						-.1055								.0161	
150.000						-.0697								.0202	
160.000						-.0482								.0212	
170.000						-.0520								.0192	
180.000						-.0525	.0086	.0331	.0364	.0374	.0475	.0400	.0282	.0210	.0133

X/L	.4500	.4640	.4860	.5050	.5240	.5460	.5610	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.6080	[illegible]	
PHI															
90.000	.0631	.0624	.0781	.3675	.0662	.0583	.0627	.0640	[illegible]	[illegible]	[illegible]	.1191	.1000	.1019	[illegible]
100.000	.0426	.0557	.0619	.0680	.0639	.0554	.0563	.0539	.0671	.0650	.0928	.1065	.1142	.1127	.0903
110.000	.0000	.0431	.0655	.0665	.0626	.0557	.0601	.0586	.0591	.0671	.0723	.0859	.1062	.1003	.0000
120.000						.0583								[illegible]	
130.000						.0457								.0545	
140.000						.0323								[illegible]	
150.000						.0277								[illegible]	
160.000						.0166								[illegible]	
170.000						.0106								[illegible]	
180.000	.0000	-.0036	-.0046	-.0018	-.0072	-.0016	-.0001	.0581	.0005	.0031	.0119	.0043	.0041	[illegible]	.1021

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1626		
70.000							.1428	.1370	.0809
80.000							.1306	.0951	.0774
90.000	.0996	.0367	.0394	.0967	.0000	.0000	.1269	.0740	.0542
100.000	.0815	.0411	.0526	.1560	.2204	.1933			
110.000	.0798	.0634	.0668	.2378	.2738	.2062			
120.000						.3417			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.747 ALPHA (1) = -8.412

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8200	.8620	.9000	.9400
PHI									
130.000						.5094			
140.000						.3635			
150.000						.3821			
160.000						.4629			
170.000						.5099			
180.000	.0810	.0749	.0707	.3274	.3880	.4974			

MACH (1) = 1.749 ALPHA (2) = -6.211

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4817	.4412	.2832												
70.000	.5098	.4572	.3347												
80.000	.5044	.4696	.3868												
90.000			.4605	.2520	.0648	-.0197	-.0403	-.0544	-.0560	-.0869	-.0869	-.0902	-.0771	-.0671	-.0461
100.000						-.0205	-.0374	-.0521	-.0719	-.0897	-.0941	-.1013	-.0768	-.0776	-.0548
110.000						-.0496	-.0611	-.0745	-.0807	-.1026	-.1031	-.0815	-.0646	-.0671	-.0471
120.000						.0233								.0000	
130.000						-.0779								-.0151	
140.000						-.1338								-.0105	
150.000						-.1103								-.0031	
160.000						-.0890								-.0031	
170.000						-.0874								-.0028	
180.000						-.0923	-.0323	-.0035	.0056	.0115	.0200	.0151	.0066	-.0031	-.0095

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0136	.0341	.0527	.0493	.0478	.0385	.0388	.0401	.0437	.0571	.0770	.0839	.0749	.0677	.0571
100.000	-.0256	.0153	.0401	.0488	.0450	.0339	.0375	.0313	.0393	.0334	.0581	.0728	.0803	.0819	.0561
110.000	.0000	-.0177	.0267	.0457	.0439	.0339	.0352	.0349	.0344	.0349	.0367	.0558	.0762	.0834	.0000
120.000						.0290								.0450	
130.000						.0038								.0313	
140.000						-.0116								.0192	
150.000						-.0160								.0130	
160.000						-.0199								.0036	
170.000						-.0293								-.0112	
180.000	-.0215	-.0269	-.0295	-.0315	-.0372	-.0369	-.0225	.0342	-.0345	-.0283	-.0167	-.0188	-.0185	-.0193	.0741

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.749 ALPHA (2) = -6.211

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1252		
70.000							.1105	.1046	.0000
80.000							.1017	.0663	.0524
90.000	.0717	.0048	.0065	.0411	.0000	.0000	.1024	.0472	.0269
100.000	.0470	.0090	.0167	.1000	.1860	.1672			
110.000	.0485	.0308	.0389	.1951	.2376	.1856			
120.000						.3241			
130.000						.4797			
140.000						.3097			
150.000						.3256			
160.000						.3439			
170.000						.4333			
180.000	.0515	.0394	.0352	.2834	.3443	.4569			

MACH (1) = 1.751 ALPHA (3) = -4.114

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4544	.4120	.2530												
70.000	.4797	.4256	.2977												
80.000	.4685	.4141	.3423												
90.000			.4023	.2456	.0397	-.0323	-.0454	-.0615	-.0656	[illegible]		[illegible]	[illegible]	-.0887	[illegible]
100.000						-.0334	-.0441	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.1009	[illegible]
110.000						-.0539	-.0633	-.0769	-.0846	-.1127	-.1166	-.1012	-.0874	-.0922	.0736
120.000						.0102								.0000	
130.000						-.0951								[illegible]	
140.000						-.1625								[illegible]	
150.000						.1338								[illegible]	
160.000						-.1185								[illegible]	
170.000						-.1143								[illegible]	
180.000						[illegible]	-.0572	-.0264	-.0193			[illegible]	[illegible]	[illegible]	[illegible]

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.71[illegible]
PHI															
90.000	-.0305	.0074	.0274	.0243	.0245	.0174	.0176	.0161	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.000	-.0624	-.0257	.0115	.0225	.0218	.0169	.0143	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.000	.0000	-.0486	-.0102	.0207	.0212	.0130	.0135	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.000						.0016								[illegible]	
130.000						-.0205								[illegible]	
140.000						-.0379								[illegible]	
150.000						-.0389								-.0112	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (3) = -4.114

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0449								-.0218	
170.000						-.0527								-.0363	
180.000	-.0491	-.0558	-.0550	-.0560	-.0621	-.0643	-.0457	.0145	-.0581	-.0519	-.0387	-.0418	-.0428	-.0441	.0446

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.9620	.9000	.9400
P I									
60.000							.0950		
70.000							.0862	.0737	.0000
80.000							.0776	.0371	.0230
90.000	.0373	-.0219	-.0152	.0106	.0000	.0000	.0754	.0254	.0024
100.000	.0243	-.0177	-.0079	.0490	.1439	.1406			
110.000	.0212	.0042	.0109	.1483	.2165	.1714			
120.000						.3215			
130.000						.4469			
140.000						.2578			
150.000						.2695			
160.000						.3290			
170.000						.3805			
180.000	.0256	.0163	.0383	.2424	.2951	.3722			

MACH (1) = 1.751 ALPHA (4) = -2.085

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	'45	.3803	.2252												
70.000	.4414	.3901	.2653												
80.000	.4255	.3996	.3023												
90.000			.3498	.2299	.0407	-.0445	-.0588	-.0749	-.0783	-.1039	-.1034	-.1087	-.0984	-.0969	-.0977
100.000						-.0440	-.0534	-.0701	-.0880	-.1031	-.1139	-.1262	-.1127	-.1168	-.0974
110.000						-.0591	-.0698	-.0831	-.0934	-.1233	-.1318	-.1242	-.1125	-.1145	-.0862
120.000						-.0009								.0000	
130.000						-.1117								-.0768	
140.000						-.1876								-.0678	
150.000						-.1578								-.0597	
160.000						-.1373								-.0620	
170.000						-.1386								-.0612	
180.000						-.1399	-.0852	-.0631	-.0508	-.0473	-.0385	-.0467	-.0533	-.0612	-.0686

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (4) = -2.085

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0811	-.0589	-.0059	.0007	.0007	-.0044	-.0037	-.0014	.0005	.0088	.0289	.0381	.0296	.0194	.0245
100.000	-.0842	-.0808	-.0421	-.0046	[illegible]	-.0062	-.0058	-.0112	-.0024	-.0102	.0155	.0253	.0330	.0522	.0140
110.000	.0000	-.0737	-.0597	-.0265	-.0044	-.0064	-.0076	-.0084	-.0102	-.0047	[illegible]	.0106	.0304	.0312	.0000
120.000						-.0519								-.0032	
130.000						-.0554								-.0140	
140.000						-.0647								-.0270	
150.000						-.0663								-.0335	
160.000						-.0673								-.0441	
170.000						-.0774								-.0566	
180.000	-.0747	-.0803	-.0819	-.0814	-.0849	-.0844	.0528	-.0065	-.0003	-.0779	.0611	-.0645	-.0662	-.0645	.0195

X/L	.7230	.7470	.7670	.7850	[illegible]	.8200	.8420	.8610	.8780						
PHI															
60.000							.0592								
70.000							.0492	.0458	.0000						
80.000							.0504	.0129	-.0037						
90.000	.0155	-.0419	-.0357	-.0325	.0000	.0000	.0582	-.0039	-.0251						
100.000	-.0075	-.0374	-.0302	.0170	.1245	.1219									
110.000	-.0048	-.0218	-.0142	.1198	.1839	.1444									
120.000						.3045									
130.000						.4136									
140.000						.2030									
150.000						.2174									
160.000						.2735									
170.000						.3182									
180.000	.0004	-.0048	.0680	.2075	.2520	.3145									

MACH (1) = 1.751 ALPHA (5) = -.701

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	[illegible]	[illegible]	[illegible]	.4040	[illegible]	.4310
PHI															
80.000	.3933	.3427	.1964												
70.000	.4025	.3512	.2316												
80.000	.3840	.3548	.2627												
90.000			.3063	.2118	.0109	-.0555	-.0690	-.0778	-.0730	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100.000						-.0552	-.0634	-.0749	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.000						-.0619	-.0744	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.000						-.0088								[illegible]	
130.000						-.1250								-.1074	
140.000						-.2055								[illegible]	
150.000						-.1801								[illegible]	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (5) = -.001

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1578								-.0895	
170.000						-.1588								-.0898	
180.000						-.1616	-.1151	-.0931	-.0849	-.0790	-.0698	-.0791	-.0849	-.0898	-.0982

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1122	-.1076	-.0892	-.0648	-.0347	-.0248	-.0180	-.0154	-.0125	-.0032	.0150	.0232	.0106	.0067	.0083
100.000	-.1138	-.1140	-.1086	-.0872	-.0513	-.0248	-.0193	-.0213	-.0141	-.0195	.0028	.0129	.0186	.0134	-.0102
110.000	.0000	-.1066	-.1005	-.0943	-.0775	-.0426	-.0242	-.0226	-.0224	-.0187	-.0143	-.0029	.0124	.0106	.0000
120.000						-.0796								-.0260	
130.000						-.0907								-.0317	
140.000						-.0888								-.0455	
150.000						-.0901								-.0543	
160.000						-.0920								-.0665	
170.000						-.0961								-.0815	
180.000	-.1005	-.1035	-.1017	-.0997	-.1002	-.0992	-.0701	-.0348	-.1008	-.1010	-.0904	-.0911	-.0909	-.0896	-.0082

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0328		
70.000							.0211	.0214	.0000
80.000							.0292	-.0059	-.0266
90.000	-.0129	-.0587	-.0572	-.0601	.0000	.0000	.0455	-.0167	-.0457
100.000	-.0258	-.0567	-.0552	-.0329	.0889	.1066			
110.000	-.0223	-.0411	-.0327	.0747	.1720	.1454			
120.000						.2971			
130.000						.3728			
140.000						.1484			
150.000						.1655			
160.000						.2192			
170.000						.2661			
180.000	-.0208	-.0337	.0860	.1778	.2119	.2617			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (6) = 2.148

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3680	.3072	.1746												
70.000	.3672	.3131	.2007												
80.000	.3411	.3141	.2290												
90.000			.2726	.1720	.0555	-.0427	-.0593	-.0767	-.0821	-.1039	-.1083	-.1211	-.1200	-.1241	-.1414
100.000						-.0429	-.0511	-.0701	-.0834	-.1013	-.1170	-.1385	-.1356	-.1473	-.1417
110.000						-.0465	-.0637	-.0796	-.1001	-.1300	-.1421	-.1435	-.1470	-.1549	-.1457
120.000						-.0142								.0050	
130.000						-.1344								-.1404	
140.000						-.2297								-.1279	
150.000						-.2051								-.1124	
160.000						-.1810								-.1162	
170.000						-.1813								-.1157	
180.000						-.1826	-.1467	-.1221	-.1144	-.1083	-.1096	-.1047	-.1103	-.1153	-.1157

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1322	-.1336	-.1165	-.1122	-.0844	-.0564	.0419	-.0367	-.0281	-.0167	.0041	.0119	-.0024	-.0112	-.0015
100.000	-.1394	-.1441	-.1346	-.1175	.1015	-.0704	-.0483	-.0437	-.0304	-.0338	-.0096	-.0016	.0020	-.0008	.0224
110.000	.0000	-.1369	-.1300	-.1226	-.1132	-.0921	-.0637	-.0450	-.0385	-.0359	-.0307	-.0174	-.0037	-.0078	.0000
120.000						-.1056								-.0517	
130.000						-.1081								-.0582	
140.000						-.1099								-.0680	
150.000						-.1062								-.0771	
160.000						-.1083								-.0870	
170.000						-.1109								-.0999	
180.000	-.1234	-.1234	-.1206	-.1168	-.1173	-.1125	-.0657	-.0486	-.1140	-.1153	-.1090	-.1103	-.1088	-.1082	-.0279

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0056		
70.000							-.0030	.0027	.0000
80.000							.0127	-.0246	-.0465
90.000	-.0343	-.0764	-.0700	-.0771	.0000	.0000	.0337	-.0325	-.0613
100.000	-.0419	-.0724	-.0690	-.0596	.0554	.0955			
110.000	-.0397	-.0508	-.0513	.0167	.1539	.1453			
120.000						.2977			
130.000						.3341			
140.000						.1933			
150.000						.1275			
160.000						.1695			
170.000						.2047			
180.000	-.0357	-.0493	.0881	.1513	.1720	.2284			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (7) = 4.244

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3435	.2768	.1748												
70.000	.3273	.2781	.1943												
80.000	.2989	.2709	.2096												
90.000			.2471	.1635	.0440	-.0508	-.0703	-.0918	-.0975	-.1156	-.1195	-.1313	-.1338	-.1384	-.1527
100.000						-.0503	-.0572	-.0785	-.0928	-.1133	-.1308	-.1513	-.1524	-.1644	-.1626
110.000						-.0485	-.0636	-.0864	-.1090	-.1390	-.1533	-.1637	-.1695	-.1779	-.1718
120.000						-.0221								.0000	
130.000						-.1425								-.1764	
140.000						-.2504								-.1583	
150.000						-.2304								-.1445	
160.000						-.2079								-.1445	
170.000						-.2063								-.1366	
180.000						-.2081	-.1720	-.1523	-.1390	-.1318	-.1259	-.1310	-.1374	-.1382	-.1377

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1448	-.1433	-.1305	-.1186	-.1005	-.0816	-.0683	-.0595	-.0509	-.0405	-.0153	-.0055	-.0151	-.0192	-.0121
100.000	-.1588	-.1611	-.1522	-.1313	-.1153	-.0936	-.0730	-.0665	-.0540	-.0553	-.0252	-.0151	-.0096	-.0120	-.0346
110.000	.0000	-.1629	-.1517	-.1425	-.1290	-.1036	-.0883	-.0740	-.0665	-.0592	-.0488	-.0382	-.0216	-.0260	.0000
120.000						-.1209								-.0804	
130.000						-.1259								-.0851	
140.000						-.1243								-.0890	
150.000						-.1210								-.0955	
160.000						-.1202								-.1027	
170.000						-.1238								-.1136	
180.000	-.1402	-.1356	-.1341	-.1242	-.1237	-.1238	-.0883	-.0732	-.1285	-.1280	-.1219	-.1214	-.1173	-.1181	-.0466

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0325		
70.000							-.0327	-.0146	.0000
80.000							-.0025	-.0409	-.0608
90.000	-.0508	-.0813	-.0469	-.0929	.0000	.0000	.0198	-.0445	-.0765
100.000	-.0508	-.0789	-.0658	-.0809	.0098	.0860			
110.000	-.0479	-.0651	-.0680	-.0185	.1431	.1543			
120.000						.3230			
130.000						.3377			
140.000						.0664			
150.000						.0894			
160.000						.1463			
170.000						.1562			
180.000	-.0498	-.0638	.0854	.1120	.1324	.1983			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (8) = 6.317

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3238	.2520	.1542												
70.000	.2866	.2458	.1758												
80.000	.2366	.2327	.1925												
90.000			.2255	.1460	.0217	-.0675	-.0901	-.1136	-.1172	-.1293	-.1290	-.1367	-.1374	-.1399	-.1542
100.000						-.0683	-.0755	-.0949	-.1075	-.1241	-.1395	-.1595	-.1583	-.1664	-.1682
110.000						-.0554	-.0765	-.0980	-.1218	-.1531	-.1677	-.1787	-.1848	-.1924	-.1868
120.000						-.0373								.0000	
130.000						-.1566								-.2077	
140.000						-.2686								-.1889	
150.000						-.2563								-.1672	
160.000						-.2330								-.1564	
170.000						-.2281								-.1542	
180.000						-.2322	-.1974	-.1759	-.1654	-.1526	-.1460	-.1527	-.1534	-.1527	-.1514

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1407	-.1203	.1007	-.0926	-.0819	-.0806	-.0716	-.0695	-.0641	-.0532	-.0260	-.0182	.0260	-.0320	.0215
100.000	-.1644	-.1596	-.1453	-.1153	-.0933	-.0833	-.0747	-.0804	-.0636	-.0714	-.0431	-.0278	-.0206	-.0247	-.0469
110.000	.0000	-.1777	-.1619	-.1418	-.1186	-.1045	-.0932	-.0890	-.0817	-.0768	-.0727	-.0572	-.0351	-.0374	.0000
120.000						-.1275								-.1174	
130.000						-.1277								-.1132	
140.000						-.1305								-.1143	
150.000						-.1305								-.1143	
160.000						-.1323								-.1182	
170.000						-.1325								-.1221	
180.000	-.1502	-.1446	-.1392	-.1377	-.1362	-.1349	-.0939	-.0854	-.1365	-.1334	-.1259	-.1288	-.1231	-.1137	.0545

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0733		
70.000							-.0684	-.0409	.0000
80.000							-.0301	-.0635	-.0812
90.000	-.0999	-.0868	-.0385	-.1109	.0000	.0000	.0017	-.0645	-.0969
100.000	-.0804	-.0806	-.0730	-.1006	-.0491	.0606			
110.000	-.0824	-.0663	-.0831	-.0804	.1114	.1419			
120.000						.2276			
130.000						.3246			
140.000						.0467			
150.000						.0635			
160.000						.1417			
170.000						.1326			
180.000	-.0868	-.0757	.0883	.0886	.1124	.1012			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (1) = 1.751 ALPHA (9) = 8.469

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3028	.2364	.136												
90.000	.2379	.2297	.1558												
95.000	.2230	.2105	.1792												
90.000			.2048	.1189	-.0073	-.0965	-.1149	-.1377	-.1346	-.1405	-.1387	-.1474	-.1468	-.1468	-.1534
100.000						-.0954	-.0995	-.1128	-.1241	-.1366	-.1466	-.1666	-.1669	-.1703	-.1718
110.000						-.0714	-.0944	-.1164	-.1354	-.1635	-.1753	-.1838	-.1904	-.2015	-.1947
120.000						-.0511								.0000	
130.000						-.1726								-.2421	
140.000						-.2863								-.2136	
150.000						-.2799								-.1891	
160.000						-.2571								-.1751	
170.000						-.2497								-.1692	
180.000						-.2546	-.2219	-.1981	-.1835	-.1717	-.1645	-.1649	-.1652	-.1672	-.1613

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1175	-.0760	-.0525	-.0574	-.0615	-.0759	-.0706	-.0706	-.0704	-.0623	-.0371	-.0260	-.0382	-.0407	-.0382
100.000	-.1624	-.1343	-.0964	-.0742	-.0737	-.0844	-.0751	-.0896	-.0854	-.0888	-.0594	-.0444	-.0335	-.0395	-.0645
110.000	.0000	-.1772	-.1389	-.1068	-.1007	-.1114	-.1119	-.1096	-.1106	-.1026	-.0950	-.0765	-.0519	-.0561	.0000
120.000						-.1535								-.1598	
130.000						-.1329								-.1437	
140.000						-.1340								-.1424	
150.000						-.1389								-.1346	
160.000						-.1433								-.1269	
170.000						-.1480								-.1170	
180.000	-.1611	-.1603	-.1545	-.1519	-.1542	-.1527	-.1059	-.1062	-.1462	-.1415	-.1331	-.1248	-.1118	-.1012	-.0480

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1156		
85.000							-.1116	-.0701	.0000
90.000							.0598	-.0895	-.1025
90.000	-.0470	-.0800	.0294	-.1292	.0000	.0000	-.0222	-.0641	-.1178
100.000	-.0835	-.0827	-.0805	-.1215	-.1147	.0315			
110.000	-.0874	-.0824	-.1038	-.1024	.0625	.1394			
120.000						.3020			
130.000						.2800			
140.000						.0039			
150.000						.0789			
160.000						.1189			
170.000						.0950			
180.000	-.0802	-.0871	.0667	.0860	.1150	.1795			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.004 ALPHA (1) = -7.840

SECTION (11ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1840	.2050	.2420	.2640	.2820	.3010	.3190	.3180	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.5115	.5015	.3535												
70.000	.4987	.5010	.3985												
80.000	.4440	.5096	.4278												
90.000			.4643	.3329	.1413	.0574	.0432	.0204	.0107	-.0145	-.0145	-.0215	-.0156	-.0172	-.0247
100.000						.0582	.0432	.0268	.0052	-.0140	-.0262	-.0367	-.0239	-.0308	-.0194
110.000						.0238	.0152	.0035	-.0018	-.0278	-.0350	-.0272	-.0197	-.0233	-.0101
120.000						.0968								.0000	
130.000						.0124								.0149	
140.000						-.0623								.0168	
150.000						-.0361								.0165	
160.000						-.0243								.0171	
170.000						-.0392								.0161	
180.000						-.0434	-.0029	.0263	.0546	.0324	.0354	.0362	.0329	.0265	.0285

X/L	.4900	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6900	.7100
PHI															
90.000	-.0103	-.0082	.0046	.0186	.0415	.0615	.0677	.0699	.0727	.0810	.0997	.1038	.0999	.0963	.0847
100.000	-.0084	-.0092	-.0051	.0085	.0271	.0424	.0580	.0666	.0735	.0660	.0883	.0888	.0874	.1013	.0902
110.000	.0000	.0052	.0085	.0068	.0110	.0204	.0407	.0613	.0694	.0710	.0763	.0780	.0885	.0919	.0807
120.000						.0299								.0624	
130.000						.0318								.0567	
140.000						.0332								.0446	
150.000						.0391								.0363	
160.000						.0371								.0260	
170.000						.0332								.0124	
180.000	.0276	.0282	.0307	.0332	.0285	.0232	.0160	.0135	.0082	.0057	.0149	.0096	.0079	.0068	.0094

X/L	.7290	.7470	.7670	.7850	.8050	.8230	.8620	.9000	.9400
PHI									
80.000							.1237		
70.000							.1160	.1150	.0991
80.000							.1263	.0923	.0748
90.000	.0833	.0369	.0472	.0443	.0000	.0009	.1411	.0875	.0548
100.000	.0458	.0440	.0538	.0905	.1626	.1975			
110.000	.0802	.0536	.0875	.1781	.2415	.1836			
120.000						.3445			
130.000						.5198			
140.000						.3612			
150.000						.3183			
160.000						.3902			
170.000						.4287			
180.000	.0798	.0598	.0044	.1171	.3429	.4969			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.004 ALPHA (2) = -5.719

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4720	.4596	.3228												
70.000	.4524	.4629	.3620												
80.000	.4298	.4668	.3900												
90.000			.4228	.3082	.1128	.0445	.0313	.0067	-.0033	-.0287	-.0309	-.0397	-.0376	-.0387	-.0439
100.000						.0448	.0324	.0147	-.0088	-.0298	-.0425	-.0576	-.0480	-.0541	-.0387
110.000						.0197	.0111	-.0033	-.0160	-.0447	-.0574	-.0508	-.0458	-.0491	-.0302
120.000						.0887								.0000	
130.000						-.0110								-.0189	
140.000						-.0850								-.0151	
150.000						-.0640								-.0096	
160.000						-.0480								-.0079	
170.000						-.0593								-.0008	
180.000						-.0665	-.0303	-.0080	.0006	.0014	.0036	.0022	.0009	.0050	.0080

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0324	-.0271	-.018*	-.0167	-.0008	.0144	.0274	.0371	.0493	.0578	.0761	.0775	.0753	.0692	.0515
100.000	-.0321	-.0318	-.0282	-.0211	-.0131	-.0005	.0117	.0277	.0504	.0476	.0664	.0670	.0714	.0736	.0562
110.000	.0000	-.0186	-.0150	-.0164	-.0148	-.0107	-.0027	.0166	.0415	.0523	.053*	.0548	.0611	.0645	.0000
120.000						.0011								.0363	
130.000						.0009								.0293	
140.000						.0011								.0163	
150.000						.0067								.0072	
160.000						.0064								-.0033	
170.000						.0031								-.0137	
180.000	.0097	.0072	.0069	.0047	-.0005	-.0061	-.0083	-.0117	-.0103	-.0114	-.0070	-.0145	-.0170	-.0218	.0489

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0908		
70.000							.0879	.0822	.0000
80.000							.0942	.0609	.0422
90.000	.0289	.0129	.0166	.0142	.0000	.0000	.1137	.0603	.0259
100.000	.0502	.0294	.0279	.0499	.1314	.1608			
110.000	.0539	.0486	.0415	.1414	.2204	.1636			
120.000						.3285			
130.000						.4933			
140.000						.3156			
150.000						.2693			
160.000						.3348			
170.000						.3766			
180.000	.0247	-.0288	-.0169	.1642	.3035	.4326			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.004 ALPHA (3) = -3.560

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4529	.4195	.2914												
70.000	.4413	.4253	.3240												
80.000	.4077	.4284	.3513												
90.000			.3845	.2781	.1210	.0307	.0163	-.0058	-.0151	-.0378	-.0422	-.0507	-.0546	-.0551	-.0669
100.000						.0323	.0185	.0025	-.0185	-.0383	-.0518	-.0676	-.0647	-.0719	-.0647
110.000						.0083	.0020	-.0116	-.0254	-.0543	-.0673	-.0708	-.0683	-.0721	-.0581
120.000						.0752								.0000	
130.000						-.0300								-.0188	
140.000						-.1103								-.0485	
150.000						-.0946								-.0401	
160.000						-.0794								-.0379	
170.000						-.0485								-.0341	
180.000						-.0960	-.0615	-.0394	-.0317	-.0256	-.0194	-.0225	-.0222	-.0236	-.0227

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7190
PHI															
90.000	-.0570	-.0535	-.0436	-.0420	-.0324	-.0170	-.0070	.0086	.0174	.0268	.0432	.0498	.0495	.0462	.0300
100.000	-.0576	-.0579	-.0524	-.0447	-.0389	-.0321	-.0221	-.0014	.0183	.0185	.0371	.0423	.0479	.0523	.0366
110.000	.0000	-.0464	-.0433	-.0422	-.0395	-.0376	-.0299	-.0134	.0050	.0180	.0293	.0335	.0396	.0410	.0000
120.000						-.0233								.0136	
130.000						-.0268								.0047	
140.000						-.0218								-.0061	
150.000						-.0176								-.0165	
160.000						-.0184								-.0264	
170.000						-.0215								-.0346	
180.000	-.0205	-.0170	-.0189	-.0197	-.0258	-.0225	-.0313	-.0296	-.0352	-.0374	-.0317	-.0349	-.0380	-.0431	-.0234

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0648		
70.000							.0600	.0540	.0000
80.000							.0706	.0340	.0169
90.000	.0144	-.0128	-.0078	-.0118	.0000	.0000	.0845	.0372	.0038
100.000	.0171	-.0078	-.0078	.0126	.0899	.1263			
110.000	.0239	.0047	.0113	.0883	.1775	.1347			
120.000						.3126			
130.000						.4508			
140.000						.2624			
150.000						.2059			
160.000						.2742			
170.000						.3218			
180.000	.0305	.0142	-.0410	.1323	.2500	.3617			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.000 ALPHA (4) = -1.584

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4357	.3814	.2537												
70.000	.4277	.3857	.2853												
80.000	.4002	.3882	.3082												
90.000			.3411	.2343	.0875	.0119	-.0074	-.0301	-.0352	-.0530	-.0551	-.0622	-.0703	-.0730	-.0855
100.000						.0119	-.0015	-.0164	-.0336	-.0535	-.0639	-.0778	-.0820	-.0912	-.0888
110.000						.0002	-.0137	-.0284	-.0426	-.0680	-.0810	-.0882	-.0904	-.0904	-.0855
120.000						.0569								.0000	
130.000						-.0486								-.0787	
140.000						-.1345								-.0736	
150.000						-.1211								-.0657	
160.000						-.1050								-.0595	
170.000						-.1140								-.0530	
180.000						-.1225	-.0971	-.0756	-.0647	-.0551	-.0461	-.0424	-.0443	-.0454	-.0486

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0815	-.0811	-.0719	-.0670	-.0562	-.0402	-.0253	-.0114	-.0021	.0045	.0133	.0207	.0204	.0193	.0079
100.000	-.0861	-.0879	-.0809	-.0689	-.0608	-.0529	-.0418	-.0189	-.0023	-.0048	.0065	.0125	.0198	.0267	.0125
110.000	.0000	-.0803	-.0741	-.0687	-.0600	-.0589	-.0515	-.0322	-.0137	-.0021	-.0015	.0032	.0114	.0177	.0000
120.000						-.0473								-.0089	
130.000						-.0507								-.0158	
140.000						-.0476								-.0266	
150.000						-.0457								-.0360	
160.000						-.0454								-.0457	
170.000						-.0476								-.0542	
180.000	-.0510	-.0500	-.0486	-.0459	-.0464	-.0531	-.0554	-.0490	-.0576	-.0614	-.0606	-.0628	-.0622	-.0586	-.0013

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0236		
70.000							.0280	.0265	.0000
80.000							.0472	.0099	-.0079
90.000	-.0094	-.0309	-.0306	-.0364	.0000	.0000	.0628	.0101	-.0181
100.000	-.0133	-.0314	-.0319	-.0029	.0714	.0960			
110.000	-.0018	-.0199	-.0131	.0758	.1396	.1048			
120.000						.2813			
130.000						.3929			
140.000						.1990			
150.000						.1492			
160.000						.2131			
170.000						.2650			
180.000	.0019	-.0133	-.0524	.1167	.1993	.2922			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.001 ALPHA (5) = .591

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CF

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
65.000	.4139	.3445	.2190												
70.000	.4027	.3511	.2483												
80.000	.3707	.3511	.2704												
90.000			.3046	.1972	.0689	-.0076	-.0237	-.0469	-.0496	-.0649	-.0692	-.0750	-.0822	-.0868	-.1021
100.000						-.0076	-.0130	-.0297	-.0461	-.0649	-.0750	-.0900	-.0969	-.1045	-.1113
110.000						-.0068	-.0218	-.0376	-.0529	-.0818	-.0935	-.1007	-.1059	-.1061	-.1 [illegible]
120.000						.0359								.0005	
130.000						-.0625								-.1072	
140.000						-.1531								-.1045	
150.000						-.1438								-.0939	
160.000						-.1269								-.[illegible]	
170.000						-.1305								-.[illegible]	
180.000						-.1397	-.1192	-.1064	-.[illegible]4	-.0780	-.0649	-.0643	-.0659	-.0662	.0662

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.71[illegible]
PHI															
90.000	-.0964	-.0971	-.0874	-.0789	-.0651	-.0423	-.0332	-.0260	-.0232	-.0188	-.0071	.0021	.0014	-.0021	.0106
100.000	-.1037	-.1066	-.1020	-.0876	-.0762	-.0526	-.0420	-.0310	-.0224	-.0249	-.0154	-.0115	-.0038	.0012	-.0169
110.000	.0000	-.1150	-.0971	-.0936	-.0852	-.0649	-.0539	-.0365	-.0290	-.0257	-.0248	-.0218	-.0138	-.0098	.0000
120.000						-.0762								-.0[illegible]6	
130.000						-.0719								-.0476	
140.000						-.0713								-.0477	
150.000						-.0677								-.0516	
160.000						-.0688								-.0563	
170.000						-.0694								-.0691	
180.000	-.0708	-.0758	-.0892	-.0681	-.0686	-.0722	-.0746	-.0561	-.0791	-.0796	-.0784	-.0806	-.0798	-.0765	-.0219

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9480
PHI									
60.000							-.0044		
75.000							-.0015	.0050	.0900
80.000							.0237	-.0052	-.0238
90.000	-.0298	-.0459	-.0528	-.0612	.0000	.0000	.0453	.0003	-.0332
100.000	-.0312	-.0478	-.0517	-.0420	.0295	.0816			
110.000	-.0227	-.0425	-.0417	.0290	.1294	.1963			
120.000						.2755			
130.000						.3495			
140.000						.1469			
150.000						.1197			
160.000						.1682			
170.000						.2082			
180.000	-.0185	-.0341	-.0475	.1118	.1643	.2292			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 1.999 ALPHA (6) = 2.676

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3928	.3175	.1939												
70.000	.3724	.3211	.2184												
80.000	.3431	.3192	.2709												
90.000			.2703	.1605	.0456	-.0271	-.0374	-.0589	-.0453	-.0542	-.0599	-.0702	-.0929	-.0972	-.1131
100.000						-.0285	-.0252	-.0407	-.0475	-.0561	-.0673	-.0849	-.1066	-.1172	-.1177
110.000						-.0177	-.0293	-.0475	-.0613	-.0865	-.0941	-.1118	-.1188	-.1272	-.1263
120.000						.0190								.0000	
130.000						-.0811								-.1331	
140.000						-.1712								-.1317	
150.000						-.1663								-.1110	
160.000						-.1506								-.1104	
170.000						-.1517								-.0937	
180.000						-.1568	-.1329	-.1161	-.1012	-.0936	-.0876	-.0813	-.0837	-.0864	-.0875

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1056	-.0926	-.0675	-.0955	-.0958	-.1004	-.0443	-.0415	-.0399	-.0374	-.0207	-.0149	-.0113	-.0132	-.0317
100.000	-.1177	-.1155	-.1101	-.1028	-.1009	-.1017	-.0503	-.0462	-.0399	-.0484	-.0314	-.0294	-.0121	-.0058	-.0275
110.000	.0000	-.1198	-.1112	-.1085	-.1071	-.1050	-.0547	-.0533	-.0503	-.0484	-.0443	-.0415	-.0256	-.0228	.0000
120.000						-.1015								-.0629	
130.000						-.0866								-.0635	
140.000						-.0874								-.0800	
150.000						-.0839								-.0871	
160.000						-.0855								-.0910	
170.000						-.0858								-.0934	
180.000	-.0861	-.0874	-.0842	-.0815	-.0866	-.0885	-.0932	-.0751	-.0970	-.0951	-.0868	-.0945	-.0937	-.0981	-.0335

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0235		
70.000							-.0175	-.0110	.0000
80.000							.0079	-.0217	-.0430
90.000	-.0440	-.0623	-.0686	-.0796	.0000	.0000	.0335	-.0149	-.0482
100.000	-.0469	-.0668	-.0694	-.0665	-.0123	.0676			
110.000	-.0403	-.0623	-.0652	-.0191	.1120	.1095			
120.000						.2740			
130.000						.3154			
140.000						.0981			
150.000						.0880			
160.000						.1379			
170.000						.1681			
180.000	-.0377	-.0579	-.0257	.0936	.1353	.1973			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.001 ALPHA (7) = 4.695

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3642	.2867	.1704												
70.000	.3378	.2908	.1957												
80.000	.3074	.2807	.2073												
90.000			.2318	.1339	.0320	-.0299	-.0356	-.0568	-.0563	-.0677	-.0723	-.0826	-.0876	-.0911	-.1095
100.000						-.0302	-.0256	-.0356	-.0484	-.0628	-.0769	-.0967	-.1013	-.1122	-.1157
110.000						-.0253	-.0332	-.0449	-.0565	-.0834	-.0983	-.1108	-.1170	-.1257	-.1284
120.000						.0056								.0000	
130.000						-.0935								-.1524	
140.000						-.1852								-.1408	
150.000						-.1836								-.1267	
160.000						-.1673								-.1235	
170.000						-.1657								-.1065	
180.000						-.1717	-.1502	-.1331	-.1190	-.1064	-.1[illegible]	-.1013	-.1005	-.1[illegible]41	.1027

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.1059	-.1054	-.1002	-.1006	-.0956	-.0932	-.0817	-.0704	-.0600	-.0515	-.0323	-.0254	-.0248	-.0265	-.0393
100.000	-.1189	-.1216	-.1205	-.1108	-.1078	-.1043	-.0960	-.0864	-.0702	-.0660	-.0446	-.0380	-.0270	-.0218	-.0367
110.000	.0000	-.1302	-.1280	-.1259	-.1210	-.1162	-.1092	-.0974	-.0864	-.0762	-.0644	-.0575	-.0435	-.0364	.0000
120.000						-.1243								-.0842	
130.000						-.1144								-.0829	
140.000						-.1076								-.0864	
150.000						-.1015								-.0892	
160.000						-.0985								-.0952	
170.000						-.0988								-.1019	
180.000	-.1008	-.1000	-.0978	-.0959	-.0981	-.0999	-.1023	-.0993	-.1065	-.1081	-.1029	.1.60	-.1045	-.1035	.0560

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0606		
70.000							-.0481	-.0309	.0000
80.000							-.0054	-.0374	-.0554
90.000	-.0573	-.0721	-.0721	-.0872	.0000	.0000	.0252	-.0239	-.0606
100.000	-.0568	-.0727	-.0703	-.0745	-.0461	.0632			
110.000	-.0479	-.0672	-.0745	-.0412	.0989	.1251			
120.000						.3109			
130.000						.2964			
140.000						.0549			
150.000						.0611			
160.000						.1025			
170.000						.1175			
180.000	-.0466	-.0664	-.0055	.0760	.1069	.1201			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (Z) = 1.999 ALPHA (B) = 6.774

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3435	.2584	.1449												
70.000	.3016	.2598	.1620												
80.000	.2662	.2403	.1741												
90.000			.1914	.1033	.0091	-.0446	-.0608	-.0830	-.0795	-.0865	-.0886	-.0975	-.1011	-.1045	-.1150
100.000						-.0468	-.0433	-.0538	-.0627	-.0789	-.0932	-.1102	-.1148	-.1244	-.1255
110.000						-.0314	-.0411	-.0544	-.0725	-.1000	-.1137	-.1233	-.1335	-.1411	-.1416
120.000						-.0071								.0000	
130.000						-.1045								-.1843	
140.000						-.1976								-.1658	
150.000						-.1942								-.1507	
160.000						-.1842								-.1319	
170.000						-.1796								-.1233	
180.000						-.1836	-.1683	-.1513	-.1378	-.1256	-.1191	-.1199	-.1180	-.1177	-.1166

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1107	-.1121	-.1054	-.0970	-.0823	-.0632	-.0565	-.0510	-.0494	-.0474	-.0384	-.0327	-.0351	-.0406	-.0536
100.000	-.1250	-.1314	-.1284	-.1166	-.1059	-.0855	-.0720	-.0674	-.0589	-.0636	-.0534	-.0485	-.0409	-.0378	-.0536
110.000	.0000	-.1446	-.1413	-.1376	-.1311	-.1199	-.1024	-.0868	-.0789	-.0808	-.0786	-.0720	-.0638	-.0597	.0000
120.000						-.1558								-.1358	
130.000						-.1362								-.1086	
140.000						-.1300								-.1029	
150.000						-.1237								-.1021	
160.000						-.1207								-.1034	
170.000						-.1207								-.1078	
180.000	-.1168	-.1188	-.1166	-.1156	-.1172	-.1201	-.1207	-.0980	-.1218	-.1207	-.1171	-.1157	-.1130	-.1105	-.0651

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0946		
70.000							-.0839	-.0576	.0000
80.000							-.0358	-.0591	-.0777
90.000	-.0708	-.0799	-.0893	-.1049	.0000	.0000	-.0004	-.0464	-.0785
100.000	-.0731	-.0880	-.0895	-.0955	-.0945	.0343			
110.000	-.0648	-.0856	-.1002	-.0752	.0477	.1145			
120.000						.3063			
130.000						.2993			
140.000						.0128			
150.000						.0400			
160.000						.0688			
170.000						.0747			
180.000	-.0664	-.0898	.0034	.0589	.0796	.1459			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB018)

MACH (2) = 2.004 ALPHA (9) = 8.938

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3247	.2367	.1168												
70.000	.2727	.2365	.1364												
80.000	.2508	.2127	.1456												
90.000			.1591	.0731	-.0181	-.0716	-.0837	-.1062	-.1037	-.1040	-.1043	-.1086	-.1086	-.1091	-.1123
100.000						-.0716	-.0638	-.0740	-.0821	-.0956	-.1073	-.1227	-.1231	-.1320	-.1279
110.000						-.0435	-.0548	-.0697	-.0870	-.1140	-.1270	-.1336	-.1416	-.1494	-.1494
120.000						-.0219								.0000	
130.000						-.1148								-.2088	
140.000						-.2116								-.1898	
150.000						-.2137								-.1693	
160.000						-.1997								-.1516	
170.000						-.1916								-.1400	
180.000						-.1932	-.1807	-.1629	-.1513	-.1410	-.1343	-.1328	-.1336	-.1343	-.1335

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7130
PHI															
90.000	-.1024	-.0882	-.0583	-.0513	-.0470	-.0443	-.0416	-.0419	-.0432	-.0449	-.0345	-.0317	-.0375	-.0446	-.0604
100.000	-.1244	-.1161	-.1027	-.0804	-.0645	-.0607	-.0558	-.0583	-.0545	-.0657	-.0544	-.0512	-.0473	-.0468	-.0630
110.000	.0000	-.1405	-.1315	-.1186	-.0981	-.0809	-.0832	-.0829	-.0824	-.0862	-.0873	-.0864	-.0771	-.0747	-.0880
120.000						-.1169								-.1726	
130.000						-.1450								-.1523	
140.000						-.1365								-.1217	
150.000						-.1349								-.1163	
160.000						-.1341								-.1146	
170.000						-.1335								-.1144	
180.000	-.1350	-.1344	-.1342	-.1323	-.1328	-.1324	-.1335	-.0908	-.1294	-.1259	-.1171	-.1174	-.1152	-.1137	-.0721

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1098		
70.000							-.1126	-.0764	.0000
80.000							-.0621	-.0740	.0896
90.000	-.0781	-.0822	-.0997	-.1140	.0000	.0000	-.0183	-.0624	-.0929
100.000	-.0788	-.0919	-.0978	-.1091	-.1130	.0145			
110.000	-.0742	-.0924	-.1054	-.1025	-.0093	.1172			
120.000						.2798			
130.000						.2484			
140.000						-.0230			
150.000						.0281			
160.000						.0811			
170.000						.0660			
180.000	-.0799	-.1012	-.0083	.0415	.0698	.1460			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB019) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .6?? ALPHA (1) = -8.486

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0687	.0002	-.1629												
70.000	.1588	.0311	-.1088												
80.000	.1909	-.0109	-.1022												
90.000			-.1883	-.2888	-.3216	-.1788	-.1418	-.0896	-.0523	-.0918	-.0552	-.0288	.0117	.0225	.0000
100.000						-.1798	-.1895	-.1233	-.0724	-.0555	-.0355	-.0466	-.0051	-.0028	-.0041
110.000						-.3365	-.2341	-.1812	-.1077	-.0587	-.0434	-.0035	-.0003	.0079	.0146
120.000						-.1718								.0000	
130.000						-.2392								-.0149	
140.000						-.2373								-.0123	
150.000						-.1607								-.0351	
160.000						-.1686								-.0364	
170.000						-.1953								-.0389	
180.000						-.1664	-.1437	-.1284	-.1147	-.1077	-.0721	-.0576	-.0418	-.0509	-.0329

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0311	.0228	.0237	.0333	.0594	.0575	.0888	.0802	.0770	.0448	.0480	.0094	-.0275	-.0151	.0230
100.000	.0047	-.0052	.0049	.0355	.0457	.0530	.0802	.0758	.0735	.0356	.0257	.0075	.0046	.0037	.0160
110.000	.0000	.0164	.0189	.0094	.0342	.0154	.0809	.0512	.0697	.0688	.0286	.0174	.0053	.0164	.0000
120.000						.0345								.0509	
130.000						.0276								.0678	
140.000						.0111								.0614	
150.000						.0375								.0620	
160.000						.0197								.0611	
170.000						.0197								.0311	
180.000	-.0524	-.0397	-.0182	-.0277	-.0021	.0078	-.0212	-.0054	-.0112	-.0012	-.0033	.0180	.0231	.0506	.1242

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0367		
70.000							-.0003	-.0155	.0000
80.000							-.0170	-.0622	-.0863
90.000	-.0018	.0384	.0357	.0363	.0000	.0000	-.0039	-.0601	-.0735
100.000	.0363	.0466	.0872	.0639	.0212	-.0286			
110.000	.0899	.0908	.1145	.0954	.0455	-.0860			
120.000						-.1818			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .606 ALPHA (1) = -8.486

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.0161			
140.000						.0846			
150.000						.1413			
160.000						.2352			
170.000						.3804			
180.000	.0766	.1750	.2205	.2568	.3083	.3470			

MACH (1) = .602 ALPHA (2) = -8.463

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
60.000	.0589	.3073	- 1703												
70.000	.1363	.0102	-.1171												
80.000	.1744	-.0072	-.1206												
90.000			-.1525	-.2901	-.3484	-.1976	-.1158	-.0875	-.0717	-.0804	-.0514	-.0423	-.0094	-.0014	-.0255
100.000						-.1951	-.1739	-.1262	-.0749	-.0485	-.0324	-.0520	-.0184	-.0479	-.0261
110.000						-.3178	-.2171	-.1787	-.0965	-.0649	-.0359	-.0248	-.0261	-.0447	.0075
120.000						-.1999								.0000	
130.000						-.2640								-.0395	
140.000						-.2843								-.0511	
150.000						-.2128								-.0762	
160.000						-.2009								-.0620	
170.000						-.2134								-.0706	
180.000						-.1986	-.1552	-.1239	-.1332	-.1136	-.0926	-.0860	.0703	-.0767	.0479

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7190
PHI															
90.000	.0134	.0173	.0257	.0353	[illegible]	.45[illegible]	.0576	.0525	.0339					[illegible]	[illegible]
100.000	-.0142	-.0123	.0141	.0163	.0273	.0244	.0225	.0241	.0315	- [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110.000	.0050	.0047	.0047	.0195	.0108	.0102	.0169	.0228	.0305	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120.000						.0118								[illegible]	
130.000						-.0034								[illegible]	
140.000						-.0246								[illegible]	
150.000						.0050									
160.000						-.0041									
170.000						-.0149								[illegible]	
180.000	-.0651	-.0405	-.0267	-.0334	-.0135	-.0246	-.0318	-.0377	-.0387	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

X/L	.7290	.7473	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB01S)

MACH (1) = .802 ALPHA (2) = -6.460

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0232		
70.000							.0023	-.0252	.0000
80.000							-.0178	-.0623	-.0654
90.000	-.0442	-.0207	.0031	.0071	.0000	.0000	-.0122	-.0576	-.0768
100.000	-.0055	.0191	.0513	.0464	.0056	-.0239			
110.000	.0402	.0672	.1004	.0982	.0484	-.0728			
120.000						-.1556			
130.000						.0208			
140.000						.0436			
150.000						.1239			
160.000						.2179			
170.000						.3671			
180.000	.0709	.1384	.1750	.2350	.2912	.1371			

MACH (1) = .801 ALPHA (3) = -4.405

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0707	.0040	-.1776												
70.000	.1523	.0380	-.1080												
80.000	.1497	.0078	-.1041												
90.000			-.1371	-.2821	-.3507	-.1960	-.1366	-.1040	-.0778	-.1343	-.0668	-.0474	-.0337	-.0157	-.0378
100.000						-.1921	-.1732	-.1341	-.0865	-.0584	-.0520	-.0671	-.0330	-.0665	-.0514
110.000						-.3083	-.2220	-.1774	-.1105	-.0739	-.0503	-.0369	-.0304	-.0575	-.0247
120.000						-.2054								.0000	
130.000						-.3089								-.0575	
140.000						-.3125								-.0671	
150.000						-.2529								-.0732	
160.000						-.2319								-.0880	
170.000						-.2377								-.0938	
180.000						-.2203	-.1719	-.1454	-.1438	-.1286	-.0998	-.0877	-.0771	-.0819	-.0665

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0073	-.0041	.0043	.0163	.0234	.0091	.0247	.0114	-.0010	-.0239	-.0340	-.0701	-.0897	-.0854	-.0630
100.000	-.0237	-.0343	-.0124	-.0021	.0043	-.0060	-.0108	-.0033	.0040	-.0448	-.0160	-.0524	-.0759	-.0471	-.0361
110.000	.0000	-.0224	-.0147	-.0111	-.0092	-.0169	-.0059	-.0013	-.0091	-.0046	-.0298	-.0435	-.0367	-.0304	.0000
120.000						-.0079								-.0026	
130.000						-.0353								.0166	
140.000						-.0389								.0114	
150.000						-.0180								.0169	

AMES 66-630 PRESSURE VENTING - INTE. . VEHICLE (RE5019)

MACH (1) = .601 ALPHA (3) = -4.405

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0242								.0215	
170.000						-.0314								.0046	
180.000	-.0852	-.0584	-.0481	-.0410	-.0413	-.0321	-.0514	-.0543	-.0524	-.0412	-.0223	-.0187	-.0069	.0147	.0742

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0187		
70.000							-.0012	-.0210	.0000
80.000							-.0146	-.0304	-.0169
91.000	-.0896	-.0434	-.0109	-.0156	[illegible]	.0000	-.0213	-.0610	-.0648
100.000	-.0365	-.0059	.0136	.0345	34	-.0226			
110.000	.0012	.0385	.0757	.1022	.0373	-.0790			
120.000						-.1358			
130.000						.0278			
140.000						.0164			
150.000						.0999			
160.000						.1922			
170.000						.3379			
180.000	.0400	.1121	.1632	.2021	.2729	.1112			

MACH (1) = .600 ALPHA (4) = -2.258

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3580	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0810	-.0019	-.1537												
70.000	.1359	.0318	-.1032												
80.000	.1369	.0004	-.0967												
90.000			-.1229	-.2764	-.3544	-.2719	-.1297	-.1018	-.0792	[illegible]					
100.000						-.2074	-.1750	-.1390	-.0979	[illegible]					
110.000						-.2906	-.2222	-.1746	-.1180	[illegible]					
120.000						-.2514									
130.000						-.3447									
140.000						-.3512									
150.000						-.2897									
160.000						-.2544									
170.000						-.2622									
180.000						-.2514	-.1824	-.1581	-.1491	[illegible]					

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	[illegible]				
PHI														

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .600 ALPHA (4) = 2.258

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.4300	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7110
PHI															
90.000	-.0279	-.0165	-.0162	-.0014	-.0011	-.0111	-.0107	-.0098	-.0344	-.0648	-.0656	-.1007	-.1215	-.1140	-.0970
100.000	-.0395	-.0439	-.0310	-.0182	-.0101	-.0243	-.0389	-.0383	-.0363	-.0780	-.0600	-.0866	-.1026	-.0867	-.0923
110.000	.0000	-.0325	-.0227	-.0214	-.0281	-.0394	-.0386	-.0350	-.0360	-.0452	-.0567	-.0807	-.0761	-.071	.0000
120.000						-.0349								-.0364	
130.000						-.0625								-.0177	
140.000						-.0658								-.0036	
150.000						-.0435								-.0005	
160.000						-.0511								.0049	
170.000						-.0560								-.0020	
180.000	-.0784	-.0619	-.0536	-.0594	-.0487	-.0563	-.0681	-.0698	-.0701	-.0596	-.0364	-.0371	-.0207	-.0049	.0504

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0302		
70.000							-.0097	-.0143	.0000
80.000							-.0162	-.0581	-.0528
90.000	-.1187	-.0688	-.0269	-.0241	.0000	.0000	-.0205	-.0649	-.0711
100.000	-.0668	-.0203	-.0039	.0196	-.0008	-.0249			
110.000	-.0374	.0199	.0695	.0905	.0454	-.0662			
120.000						-.1146			
130.000						.0216			
140.000						-.0171			
150.000						.0719			
160.000						.1739			
170.000						.3102			
180.000	.0245	.0978	.1388	.1832	.2513	.0378			

MACH (1) = .600 ALPHA (5) = -.105

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0366	-.0004	-.1293												
70.000	.1309	.0268	-.0969												
80.000	.1195	.0145	-.0943												
90.000			-.1102	-.2786	-.3472	-.2090	-.1481	-.1209	-.0979	-.1245	-.1005	-.0830	-.0458	-.0467	-.0744
100.000						-.2125	-.1908	-.1591	-.1160	-.0979	-.0723	-.0935	-.0680	-.0934	-.0587
110.000						-.2792	-.2310	-.2044	-.1335	-.1109	-.0830	-.0713	-.0654	-.0986	-.0702
120.000						-.2433								.0000	
130.000						-.3854								-.0966	
140.000						-.3790								-.0995	
150.000						-.3116								-.0976	

AMES 60-030 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .800 ALPHA (3) = -.105

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2470	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2728									
170.000						-.2647									
180.000						-.2608	-.2057	-.1792	-.1678	-.1555	-.1190	-.1121	-.0947		

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0348	-.0408	-.0361	-.0281	-.0281	-.0371	.0337	-.0402	-.0546					-.159	
100.000	.0628	-.0719	-.0529	-.0439	-.0447	-.0609								-.136	
110.000		-.0577	-.0516	-.0641		-.0753	.0645							-.11	
120.000						-.0806									
130.000						-.0864									
140.000						.0681									
150.000						.0547									
160.000						-.0622									
170.000						-.0562									
180.000	-.0809	-.0796	-.0691	-.0751	-.0661		-.0751	-.0868	-.0776		.354				

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0184		
70.000									
80.000									
90.000	-.1274	-.0932	-.0473	-.0426		.0000			
100.000	-.0886	-.0489	-.0110	.0166		-.0589			
110.000	-.0510	.0039	.0604	.1017	.0471	-.0659			
120.000						-.1066			
130.000						.0150			
140.000						-.0591			
150.000						.1378			
160.000						.1473			
170.000						.2762			
180.000	.0246	.0819	.1257	.1747	.2246	.2790			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .599 ALPHA (8) = 1.891

SECTION (11ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0530	-.0032	-.1251												
70.000	.1170	.0254	-.1031												
80.000	.0930	.0027	-.0846												
90.000			-.1135	-.2825	-.3652	-.2143	-.1547	-.1221	-.1074	-.1330	-.0930	-.0918	-.0689	-.0612	-.0909
100.000						-.2150	-.1844	-.1684	-.1256	-.0997	-.0934	-.1097	-.0886	-.1170	-.0822
110.000						-.2841	-.2413	-.2052	-.1413	-.1112	-.1042	-.0980	-.0867	-.1183	-.0870
120.000						-.2646								.0000	
130.000						-.4372								-.1154	
140.000						-.4242								-.1228	
150.000						-.3428								-.1212	
160.000						-.2834								-.1148	
170.000						-.2997								-.1180	
180.000						-.2669	-.2128	-.1905	- 1691	-.1579	-.1205	-.1128	-.1064	-.1118	-.0880

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0531	-.0525	-.0461	-.0372	-.0312	-.0671	-.0601	-.0713	-.0976	-.1363	-.1429	-.1779	-.2099	-.1889	-.1627
100.000	-.0738	-.0801	-.0779	-.0655	-.0553	-.0808	-.0831	-.0992	-.0867	-.1613	-.1219	-.1756	-.1850	-.1685	-.1549
110.000	.0000	-.0760	-.0798	-.0760	-.0795	-.0982	-.0982	-.0976	-.1077	-.1206	-.1458	-.1565	-.1517	-.1420	.0000
120.000						-.1039								-.0996	
130.000						-.1327								-.0766	
140.000						-.1077								-.0575	
150.000						-.0785								-.0468	
160.000						-.0893								-.0361	
170.000						-.0680								-.0332	
180.000	-.0893	-.0925	-.0823	-.0808	-.0706	-.0713	-.0903	-.0864	-.0818	-.0824	-.0662	-.0636	-.0390	-.0306	.0176

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0162		
70.000							-.0141	-.0263	.0000
80.000							-.0355	-.0671	-.0352
90.000	-.1674	-.1167	-.0666	-.0439	.0000	.0000	-.0230	-.0677	-.0665
100.000	-.1164	-.0666	-.0336	.0126	-.0094	-.0193			
110.000	-.0759	-.0106	.0475	.0895	.0551	-.0567			
120.000						-.0827			
130.000						.0064			
140.000						-.1011			
150.000						.0092			
160.000						.1275			
170.000						.2437			
180.000	-.0019	.0679	.1167	.1427	.2105	.0773			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .600 ALPHA (7) = 4.065

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0465	.0073	-.1177												
70.000	.0934	.0219	-.1002												
80.000	.0659	.0057	-.0980												
90.000			-.1018	-.2953	-.3551	-.2282	-.1628	-.1363	-.1247	-.1541	-.1186	-.1076	-.0829	-.0717	-.0961
100.000						-.2252	-.2200	-.1857	-.1370	-.1086	-.1144	-.1269	-.0842	-.1314	-.1394
110.000						-.2802	-.2487	-.2332	-.1618	-.1465	-.1157	-.1125	-.1022	-.1481	-.1420
120.000						-.2928								.0000	
130.000						-.4624								-.1549	
140.000						-.4578								-.1301	
150.000						-.3516								-.1356	
160.000						-.3125								-.1213	
170.000						-.2960								-.1358	
180.000						-.2763	-.2209	-.1916	-.1848	-.1554	-.1341	-.1192	-.1044	-.1249	-.0999

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7120
PHI															
90.000	-.0633	-.0726	-.0733	-.0524	-.0649	-.0874	-.0712	-.1029	-.1304	.1651	-.1935	.2226	-.2541	-.2285	-.1844
100.000	-.0929	-.0983	-.0922	-.0964	-.0768	-.1128	-.1163	-.1284	-.1206	-.1942	-.1765	-.2224	-.2213	-.1974	-.1900
110.000	.0000	-.1028	-.0995	-.1115	-.1109	-.1285	-.1268	-.1320	-.1408	-.1430	-.1788	-.1971	-.1791	-.1827	.0000
120.000						-.1279								-.1346	
130.000						-.1366								-.0895	
140.000						-.1297								-.1741	
150.000						-.0957								-.0512	
160.000						-.0872								-.0646	
170.000						-.0757								-.0512	
180.000	-.0961	-.0948	-.0778	-.0800	-.0836	-.0738	-.0927	-.0967	-.0993	-.0901	-.0731	-.0912	-.0609	-.0735	.0251

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9470
PHI									
60.000							.0175		
70.000							-.0072	-.0134	.0000
80.000							-.0193	-.0577	-.0379
90.000	-.1940	-.1358	-.0807	-.0466	.0000	.0000	-.0153	-.0599	-.0642
100.000	-.1327	-.0825	-.0472	.0033	-.0091	-.0218			
110.000	-.1011	-.0324	.0426	.1051	.0649	-.0407			
120.000						-.0800			
130.000						-.0149			
140.000						-.1317			
150.000						-.0168			
160.000						.1073			
170.000						.2027			
180.000	.0042	.0568	.1005	.1303	.1664	.0864			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (FEB219)

MACH (1) = .601 ALPHA (8) = 6.230

SECTION (1)OGB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1285	.1640	.2015	.2420	.2640	.2825	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0451	.0125	-.1101												
70.000	.0274	.0286	-.0814												
80.000	.0331	.0151	-.0850												
90.000			-.0995	-.2914	-.3721	-.2238	-.1641	-.1551	-.1393	-.1628	-.1386	-.1209	-.0873	-.0889	-.1089
100.000						-.2214	-.2141	-.1870	-.1475	-.1267	-.1169	-.1635	-.0960	-.1428	-.1145
110.000						-.2773	-.2564	-.2503	-.1832	-.1580	-.1493	-.1329	-.1303	-.1714	-.1309
120.000						-.3214								.0000	
130.000						-.5021								-.1682	
140.000						-.4450								-.1515	
150.000						-.3772								-.1726	
160.000						-.3221								-.1313	
170.000						-.3156								-.1271	
180.000						-.2740	-.2174	-.1957	-.1915	-.1693	-.1318	-.1082	-.1185	-.1172	-.0982

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.0812	-.0842	-.0903	-.0704	-.0813	-.1108	-.1133	-.1355	-.1642	-.2070	-.2189	-.2732	-.2934	-.2669	-.2067
100.000	-.1127	-.1211	-.1185	-.1140	-.1102	-.1404	-.1303	-.1557	-.1639	-.2312	-.2097	-.2627	-.2543	-.2241	-.2116
110.000	.0000	-.1288	-.1378	-.1391	-.1442	-.1648	-.1630	-.1610	-.1832	-.1972	-.2235	-.2483	-.2146	-.2146	.0000
120.000						-.1763								-.1757	
130.000						-.1704								-.1131	
140.000						-.1325								-.0937	
150.000						-.0995								-.0767	
160.000						-.0917								-.0634	
170.000						-.0937								-.0499	
180.000	-.0998	-.0922	-.0797	-.0961	-.0887	-.0773	-.0963	-.1012	-.0907	-.0875	-.0754	-.0777	-.0666	-.0463	.0129

X/L	.7290	.7470	.7670	.7850	.8030	.8240	.8620	.9000	.9400
PHI									
60.000							.0223		
70.000							-.0064	-.0033	.0000
80.000							-.0243	-.0565	-.0348
90.000	-.2296	-.1547	-.0839	-.0650	.0000	.0000	-.0320	-.0648	-.0602
100.000	-.1631	-.0969	-.0508	.0070	.0027	-.0107			
110.000	-.1331	-.0807	.0393	.1081	.0810	-.0317			
120.000						-.0614			
130.000						-.0305			
140.000						-.1824			
150.000						-.0373			
160.000						.0785			
170.000						.1498			
180.000	-.0480	.0476	.0844	.1152	.1523	.1120			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (1) = .650 ALPHA (9) = 8.385

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.431
PHI															
60.000	.0396	-.0067	-.1129												
70.000	.0454	.0247	-.0929												
80.000	-.0042	-.0022	-.0929												
90.000			-.0857	-.2864	-.3748	-.2333	-.1851	-.1628	-.1476	-.1832	-.1479	-.1336	-.1174	-.0994	-.1357
100.000						-.2382	-.2142	-.2078	-.1557	-.1544	-.1362	-.1731	-.1367	-.1686	.1367
110.000						-.2916	-.2741	-.2690	-.2139	-.1935	-.1735	-.15.	-.1528	-.2062	.566
120.000						-.3557								.0000	
130.000						-.5499								-.1943	
140.000						-.5182								-.1621	
150.000						-.3987								-.1416	
160.000						-.3284								-.1367	
170.000						-.3230								-.1	
180.000						-.2838	-.2243	-.2117	-.1880	-.1582	-.1233	-.1257	-.1103	-.1174	.0491

X/L	.4500	.4680	.4860	.5040	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6	.7100
PHI															
90.000	-.0942	-.0975	-.1158	-.0994	-.1033	-.1393	-.1285	-.1610	-.1905	-.2433	-.2741	.3013	.3312	-.3049	.2436
100.000	-.1332	-.1416	-.1519	-.1432	-.1235	-.1535	-.1754	-.1882	-.1862	-.2629	-.232	-.2656	-.3	-.2719	-.2321
110.000	.0000	-.1618	-.1564	-.1776	-.1647	-.1463	-.1954	-.1944	-.2167	.2387	-.2656	-.2935	-.27	-.2593	.0000
120.000						-.2105								-.1912	
130.000						-.1384								-.1361	
140.000						-.1584								.1092	
150.000						-.1315								.0925	
160.000						-.1072								.0764	
170.000						-.0944								-.024	
180.000	-.0846	-.0820	-.0781	-.1007	-.0920	-.0958	-.0921	-.1007	-.1102	-.1026	-.0869	-.0879	.0459	-.0	-.3137

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0256		
70.000							-.0146	-.0006	.0000
80.000							-.0217	-.0518	-.0282
90.000	-.2371	-.1719	-.0965	-.0686	.0000	.0000	-.0099	-.0646	-.0444
100.000	-.1812	-.1055	-.0503	.0016	.0019	.0003			
110.000	-.1471	-.0757	.0170	.1061	.0821	-.0164			
120.000						-.0490			
130.000						-.0351			
140.000						-.2213			
150.000						-.0580			
160.000						.0456			
170.000						.0730			
180.000	-.0102	.0255	.0676	.1036	.1471	.1693			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .752 ALPHA (1) = -8.494

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0845	-.0124	-.2230												
70.000	.1648	.0139	-.1792												
80.000	.2105	.0034	-.1693												
90.000			-.2144	-.3898	-.4279	-.2353	-.1259	-.0913	-.0535	-.0776	-.0645	-.0146	.0074	.0035	.0021
100.000						-.2200	-.1994	-.1208	-.0857	-.0502	-.0347	-.0427	.0048	-.0304	-.0200
110.000						-.3823	-.2537	-.1968	-.0908	-.0427	-.0352	-.0251	-.0144	-.0344	.0059
120.000						-.2270								.0000	
130.000						-.2519								-.0248	
140.000						-.2788								-.0326	
150.000						-.2117								-.0480	
160.000						-.1859								-.0480	
170.000						-.2230								-.0553	
180.000						-.1905	-.1426	-.1562	-.1350	-.1061	-.0773	-.0734	-.0430	-.0585	-.0198

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0311	.0429	.0410	.0708	.0850	.0745	.0938	.0986	.0895	.0650	.0561	.0120	.0047	-.0086	-.0007
100.000	.0074	.0134	.0104	.0338	.0536	.0531	.0558	.0677	.0870	.0612	.0510	.0437	.0101	.0330	.0075
110.000	.0000	.0187	.0348	.0281	.0321	.0622	.0556	.0577	.0782	.0607	.0537	.0351	.0419	.0265	.0000
120.000						.0394								.0577	
130.000						.0166								.0604	
140.000						.0107								.0698	
150.000						.0448								.0631	
160.000						.0394								.0663	
170.000						.0185								.0661	
180.000	-.0483	-.0091	-.0144	-.0027	-.0019	.0025	.0004	-.0179	-.0149	.0020	.0249	.0088	.0365	.0620	.1332

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0163		
70.000							-.0007	-.0416	.0000
80.000							-.0246	-.0622	-.0735
90.000	-.0115	.0405	.0190	.0160	.0000	.0000	-.0081	-.0774	-.0740
100.000	.0085	.0578	.0681	.0589	.0162	-.0220			
110.000	.0660	.0739	.1227	.1041	.0393	-.1103			
120.000						-.1767			
130.000						.0365			
140.000						.0983			
150.000						.1911			
160.000						.2716			
170.000						.4168			
180.000	.0835	.1763	.2348	.2849	.3616	.2299			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .751 ALPHA (2) = -6.378

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0824	-.0197	-.2207												
70.000	.1612	.0165	-.1686												
80.000	.1787	.0025	-.1460												
90.000			-.1898	-.3679	-.4324	-.2323	-.1481	-.0992	-.0748	-.1000	-.0651	-.0439	-.0169	-.0030	-.0273
100.000						-.2363	-.2002	-.1462	-.0957	-.0632	-.0418	-.0452	-.0300	-.0306	-.0142
110.000						-.3357	-.2673	-.2053	-.1186	-.0665	-.0485	-.0297	-.0247	-.0378	-.0223
120.000						-.2398								.0000	
130.000						-.3021								-.0391	
140.000						-.2994								-.0567	
150.000						-.2618								-.0519	
160.000						-.2320								-.0435	
170.000						-.2272								-.0327	
180.000						-.2078	-.1768	-.1503	-.1500	.1125	-.0857	-.0853	-.0666	-.0725	-.0532

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	.0138	.0154	.0141	.0283	.0493	.0415	.0725	.0566	.0523	.0254	.0138	-.0269	-.0341	.0475	-.0364
100.000	-.0116	-.0225	.0005	.0179	.0496	.0243	.0364	.0383	.0491	.0044	.0238	-.0041	-.0362	-.0239	-.0264
110.000	.0000	-.0075	.0249	.0106	.0130	.0181	.0354	.0367	.0386	.0327	.0074	-.0130	-.0196	-.0076	.0000
120.000						.0283								.0225	
130.000						-.0035								.0281	
140.000						-.0119								.0313	
150.000						.0085								.0324	
160.000						-.0076								.0354	
170.000						-.0081								.0265	
180.000	-.0514	-.0359	-.0345	-.0364	-.0207	-.0157	-.0323	-.0258	-.0302	-.0312	-.0147	-.0071	.0076	.0265	.1960

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0126		
70.000							-.0157	-.0330	.0050
80.000							-.0273	-.0734	-.0675
90.000	-.0594	.0107	.0061	.0056	.0000	.0300	-.0252	-.0696	-.0819
100.000	-.0091	.0189	.0409	.0466	.0097	-.0138			
110.000	.0200	.0607	.1044	.1154	.0410	-.1185			
120.000						-.1556			
130.000						.0325			
140.000						.0627			
150.000						.1615			
160.000						.2420			
170.000						.3830			
180.000	.0197	.1554	.2053	.2583	.3418	.1993			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .748 ALPHA (3) = -4.270

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0771	-.0135	-.2071												
70.000	.1574	.0319	-.1336												
80.000	.1658	.0071	-.1312												
90.000			-.1482	-.3548	-.4323	-.2373	-.1552	-.1125	-.0815	-.1020	-.0650	-.0499	-.0262	-.0214	-.0416
100.000						-.2400	-.2024	-.1514	-.1004	-.0718	-.0526	-.0745	-.0429	-.0606	-.0386
110.000						-.3410	-.2505	-.1879	-.1158	-.0791	-.0475	-.0469	-.0354	-.0644	-.0308
120.000						-.2490								.0000	
130.000						-.3435								-.0662	
140.000						-.3470								-.0767	
150.000						-.2849								-.0850	
160.000						-.2581								-.0944	
170.000						-.2611								-.0960	
180.000						-.2244	-.1771	-.1633	-.1522	-.1371	-.1042	-.0891	-.0896	-.0837	-.0767

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0150	-.0018	.0105	.0238	.0292	.0225	.0314	.0238	.0071	-.0192	-.0294	-.0679	-.0958	-.0969	-.0855
100.000	-.0282	-.0236	-.0109	-.0004	.0133	.0044	.0013	.0002	.0092	-.0411	-.0165	-.0573	-.0909	-.0668	-.0772
110.000	.0000	-.0114	.0009	-.0042	.0036	-.0026	-.0066	.0030	.0000	-.0167	-.0239	-.0417	-.0488	-.0466	.0000
120.000						-.0050								-.0154	
130.000						-.0375								.0084	
140.000						-.0361								.0037	
150.000						-.0252								.0165	
160.000						-.0320								.0130	
170.000						-.0320								.0089	
180.000	-.0702	-.0587	-.0469	-.0431	-.0404	-.0435	-.0482	-.0608	-.0561	-.0526	-.0291	-.0182	-.0113	.0059	.0702

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0112		
70.000							-.0157	-.0261	.0000
80.000							-.0206	-.0680	-.0520
90.000	-.0933	-.0446	-.0295	-.0205	.0000	.0000	-.0385	-.0657	-.0763
100.000	-.0578	-.0047	.0157	.0265	-.0036	-.0486			
110.000	-.0073	.0335	.0867	.0998	.0398	-.1076			
120.000						-.1460			
130.000						.0441			
140.000						.0269			
150.000						.1151			
160.000						.2185			
170.000						.3565			
180.000	-.0073	.1212	.1762	.2328	.3010	.1760			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .750 ALPHA (4) = -2.152

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0765	-.0014	-.1909												
70.000	.1504	.0393	-.1278												
80.000	.1531	.0128	-.1281												
90.000			-.1318	-.3495	-.4433	-.2380	-.1593	-.1353	-.1051	-.1181	-.0857	-.0693	-.0373	-.0461	-.0618
100.000						-.2377	-.2110	-.1630	-.1197	-.0954	-.0731	-.0868	-.0512	-.0828	-.0464
110.000						-.3234	-.2573	-.2145	-.1336	-.1043	-.0688	-.0654	-.0517	-.0783	-.0462
120.000						-.2639								.0000	
130.000						-.3918								-.0824	
140.000						-.3832								-.0943	
150.000						-.3121								-.0882	
160.000						-.2843								-.0772	
170.000						-.2849								-.0740	
180.000						-.2509	-.1905	-.1692	-.1636	-.1458	-.1199	-.1005	-.0916	-.0886	-.0758

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0258	-.0238	-.0175	-.0084	.0010	-.0017	.0020	-.0010	-.0239	-.0564	-.0787	-.1218	-.1565	-.1524	-.1297
100.000	-.0413	-.0515	-.0392	-.0279	-.0081	-.0188	-.0215	-.0278	-.0204	-.0777	-.0733	-.1153	-.1385	-.1251	-.1155
110.000	.0000	-.0389	-.0309	-.0338	-.0274	-.0381	-.0259	-.0220	-.0327	-.0520	-.0749	-.1003	-.1136	-.1011	.0000
120.000						-.0408								-.0583	
130.000						-.0657								-.0403	
140.000						-.0616								-.0283	
150.000						-.0390								-.0174	
160.000						-.0458								-.0100	
170.000						-.0480								-.0139	
180.000	-.0847	-.0708	-.0654	-.0654	-.0574	-.0529	-.0616	-.0701	-.0635	-.0703	-.0547	-.0539	-.0373	-.0147	.0565

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0070		
70.000							-.0312	-.0359	.0000
80.000							-.0447	-.0749	-.0558
90.000	-.1408	-.1018	-.0452	-.0318	.0000	.0000	-.0452	-.0762	-.0733
100.000	-.0891	-.0333	-.0033	.0211	-.0134	-.0534			
110.000	-.0524	.0108	.0633	.1053	.0319	-.1030			
120.000						-.1381			
130.000						.0226			
140.000						-.0142			
150.000						.0798			
160.000						.1842			
170.000						.3163			
180.000	-.0400	.1019	.1584	.2115	.2629	.1388			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .752 ALPHA (5) = -.093

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0807	-.0008	-.1477												
70.000	.1513	.0429	-.1161												
80.000	.1325	.0338	-.1048												
90.000			-.1086	-.3354	-.4547	-.2426	-.1916	-.1578	-.1252	-.1407	-.1078	-.0946	-.0482	-.0450	-.0644
100.000						-.2469	-.2332	-.1914	-.1410	-.1064	-.1005	-.1118	-.0546	-.0913	-.0546
110.000						-.3070	-.2720	-.2372	-.1715	-.1370	-.1024	-.0636	-.0652	-.0977	-.0615
120.000						-.2826								.0000	
130.000						-.4241								-.0980	
140.000						-.4174								-.1111	
150.000						-.3515								-.0988	
160.000						-.3391								-.1009	
170.000						-.3359								-.1020	
180.000						-.3230	-.2187	-.1774	-.1721	-.1541	-.1354	-.0956	-.0881	-.0927	-.0802

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0420	-.0499	-.0469	-.0339	-.0310	-.0464	-.0141	-.0247	-.0448	-.0961	-.1397	-.1872	-.2186	-.2140	-.1632
100.000	-.0519	-.0738	-.0658	-.0552	-.0416	-.0597	-.0418	-.0519	-.0440	-.1111	-.1251	-.1750	-.2005	-.1785	-.1287
110.000	.0000	-.0717	-.0589	-.0672	-.0616	-.0701	-.0543	-.0532	-.0627	-.0866	-.1302	-.1641	-.1712	-.1601	.0000
120.000						-.0832								-.1137	
130.000						-.0839								-.0898	
140.000						-.0660								-.0760	
150.000						-.0549								-.0589	
160.000						-.0592								-.0508	
170.000						-.0589								-.0475	
180.000	-.1021	-.0927	-.0861	-.0797	-.0810	-.0527	-.0695	-.0725	-.0698	-.0749	-.0776	-.0735	-.0616	-.0377	.0359

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0057		
70.000							-.0440	-.0437	.0000
80.000							-.0540	-.0913	-.0653
90.000	-.1778	-.1159	-.0627	-.0452	.0000	.0000	-.0566	-.0890	-.0751
100.000	-.1208	-.0573	-.0208	.0239	-.0193	-.0692			
110.000	-.0663	-.0118	.0663	.1087	.0239	-.1144			
120.000						-.1386			
130.000						.0038			
140.000						-.0674			
150.000						.0390			
160.000						.1520			
170.000						.2755			
180.000	-.0850	.0908	.1484	.1936	.2235	.0964			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .748 ALPHA (6) = 2.138

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0814	-.0040	-.1540												
70.000	.1241	.0295	-.1154												
80.000	.1033	.0052	-.1033												
90.000			-.1049	-.3308	-.4523	-.2517	-.1880	-.1551	-.1273	-.1548	-.1222	-.1014	-.0680	-.0688	-.0868
100.000						-.2561	-.2218	-.1902	-.1397	-.1214	-.1006	-.1232	-.0903	-.1209	-.0766
110.000						-.3181	-.2795	-.2401	-.1772	-.1479	-.1162	-.0992	-.0965	-.1126	-.0793
120.000						-.3038								.0000	
130.000						-.4855								-.1169	
140.000						-.4623								-.1201	
150.000						-.3991								-.1125	
160.000						-.3732								-.1126	
170.000						-.3818								-.1128	
180.000						-.3619	-.2307	-.1751	-.1605	-.1502	-.1224	-.1067	-.1161	-.1035	-.0828

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0543	-.0562	-.0511	-.0474	-.0412	-.0535	-.0474	-.0566	-.0941	-.1354	-.1755	-.2282	-.2670	-.2528	-.2124
100.000	-.0734	-.0847	-.0769	-.0675	-.0514	-.0745	-.0812	-.0867	-.0785	-.1523	-.1495	-.2228	-.2546	-.2255	-.1997
110.000	.0000	-.0815	-.0798	-.0839	-.0809	-.0957	-.0848	-.0859	-.1061	-.1351	-.1741	-.1993	-.2061	-.1993	-.0000
120.000						-.1126								-.1492	
130.000						-.1198								-.1077	
140.000						-.1004								-.0842	
150.000						-.0821								-.0704	
160.000						-.0845								-.0626	
170.000						-.0758								-.0503	
180.000	-.0882	-.0879	-.0755	-.0785	-.0815	-.0766	-.0823	-.0823	-.0916	-.0884	-.0826	-.0765	-.0614	-.0424	.0092

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0079		
70.000							-.0361	-.0247	.0000
80.000							-.0423	-.0645	-.0410
90.000	-.2165	-.1521	-.0858	-.0592	.0000	.0000	-.0433	-.0708	-.0589
100.000	-.1598	-.1032	- 0377	.0138	-.0152	-.0550			
110.000	-.1205	-.0395	.0388	.1004	.0431	-.0858			
120.000						-.1176			
130.000						.0020			
140.000						-.1031			
150.000						.0112			
160.000						.1251			
170.000						.2328			
180.000	-.0944	.0675	.1264	.1614	.2014	.0912			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .749 ALPHA (7) = 4.201

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0489	-.0088	-.1393												
70.000	.1000	.0222	-.0996												
80.000	.0703	.0001	-.1048												
90.000			-.1045	-.3280	-.4512	-.2657	-.1943	-.1579	-.1398	-.1671	-.1242	-.1150	-.0792	-.0803	-.1020
100.000						-.2660	-.2348	-.2089	-.1609	-.1366	-.1159	-.1310	-.1060	-.1221	-.0953
110.000						-.3134	-.2414	-.2655	-.1841	-.1609	-.1326	-.1176	-.1135	-.1476	-.1084
120.000						-.3428								.0000	
130.000						-.5386								-.1406	
140.000						-.5197								-.1361	
150.000						-.4412								-.1216	
160.000						-.4331								-.1256	
170.000						-.4588								-.1106	
180.000						-.4569	-.2930	-.1970	-.1525	-.1439	-.1172	-.0980	-.0966	-.1039	-.0924

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0685	-.0653	-.0663	-.0476	-.0559	-.0789	-.0718	-.0898	-.1209	-.1775	-.2124	-.2717	-.3159	-.3156	-.2628
100.000	-.0955	-.0990	-.0974	-.0843	-.0714	-.0993	-.0961	-.1190	-.1160	-.2010	-.1958	-.2657	-.2859	-.2744	-.2387
110.000	.0000	-.0964	-.1009	-.1143	-.0980	-.1242	-.1226	-.1313	-.1488	-.1807	-.2119	-.2495	-.2430	-.2495	.0000
120.000						-.1374								-.1750	
130.000						-.1586								-.1395	
140.000						-.1199								-.1133	
150.000						-.0942								-.0942	
160.000						-.1029								-.0752	
170.000						-.0977								-.0639	
180.000	-.0921	-.0939	-.0838	-.0945	-.0889	-.0855	-.1005	-.1032	-.1062	-.1062	-.0939	-.0953	-.0814	-.0571	-.0146

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9490
PHI									
60.000							.0191		
70.000							-.0220	-.0191	.0000
80.000							-.0300	-.0639	-.0277
90.000	-.2819	-.1896	-.1092	-.0743	.0000	.0000	-.0385	-.0639	-.0494
100.000	-.2118	-.1265	-.0618	.0002	-.0225	-.0336			
110.000	-.1558	-.0678	.0231	.0986	.0586	-.0610			
120.000						-.0890			
130.000						-.0083			
140.000						-.1474			
150.000						-.0129			
160.000						.1036			
170.000						.1822			
180.000	-.1283	.0495	.0968	.1312	.1670	.1056			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .748 ALPHA (9) = 8.383

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0333	-.0248	-.1289												
70.000	.0887	.0122	-.1130												
80.000	.0352	.0003	-.0887												
90.000			-.1055	-.3270	-.4673	-.2857	-.2120	-.1726	-.1539	-.1750	-.1289	-.1073	-.0960	-.0922	-.1134
100.000						-.2789	-.2557	-.2298	-.1758	-.1494	-.1092	-.1345	-.1303	-.1681	-.1760
110.000						-.3399	-.2969	-.3042	-.2271	-.1855	-.1262	-.1461	-.1472	-.1654	-.1332
120.000						-.3656								.0000	
130.000						-.5855								-.1625	
140.000						-.5666								-.1485	
150.000						-.5164								-.1265	
160.000						-.5234								-.1161	
170.000						-.5960								-.1198	
180.000						-.5407	-.4766	-.3339	-.1882	-.1121	-.0792	-.1070	.1024	-.0951	-.0957

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0820	-.0773	-.0865	-.0866	-.0591	-.0653	-.0912	-.1141	-.1568	-.2135	-.2620	-.3306	-.4021	-.3928	-.3147
100.000	-.1096	-.1273	-.1160	-.0859	-.0771	-.1023	-.1426	-.1488	-.1510	-.2401	-.2582	.3336	-.3622	-.3311	-.2981
110.000	.0000	-.1243	-.1307	-.1286	-.1125	-.1299	-.1486	-.1647	-.1922	-.2213	-.2669	.3221	-.3516	.3112	.0000
120.000						-.1624								.2178	
130.000						-.1759								-.1451	
140.000						-.1469								-.1588	
150.000						-.1103								-.0714	
160.000						-.1289								-.0670	
170.000						-.1111								.0624	
180.000	-.1058	-.0964	-.0795	-.0897	-.0747	-.1100	-.1141	-.1070	-.1109	-.1188	-.1200	-.1222	.0892	-.0594	-.0439

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0249		
70.000							-.0097	.0131	.0000
80.000							-.0242	-.0268	-.0089
90.000	-.3299	-.2234	-.1308	-.0785	.0000	.0000	-.0519	-.0262	-.0350
100.000	-.2597	-.1320	-.0646	-.0069	-.0139	-.0386			
110.000	-.2218	-.0982	.0060	.0880	.0470	-.0565			
120.000						-.0855			
130.000						-.0324			
140.000						-.1923			
150.000						-.0451			
160.000						.0606			
170.000						.1156			
180.000	-.2034	.0299	.0749	.1083	.1377	.1893			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (2) = .756 ALPHA (9) = 8.507

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.0383	.0055	-.1007												
70.000	.0779	.0478	-.0775												
80.000	.0516	.0329	-.0746												
90.000			-.0749	-.3075	-.4627	-.2649	-.2264	-.2057	-.1868	-.2163	-.1873	-.1591	-.0855	-.0874	-.1364
100.000						-.2905	-.2839	-.2626	-.2059	-.1804	-.1631	-.1913	-.1088	-.1733	-.1292
110.000						-.3522	-.3433	-.3449	-.2701	-.2264	-.1977	-.1480	-.1369	-.1 [illegible]8	-.1553
120.000						-.4041								.0000	
130.000						-.6397								-.1639	
140.000						-.6466								-.1454	
150.000						-.6205								-.1279	
160.000						-.6871								-.1279	
170.000						-.7185								-.1215	
180.000						-.7179	-.5855	-.3734	-.2405	-.1875	-.1186	-.0659	-.0696	-.0629	-.0871

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0919	-.1080	-.1129	-.0912	-.0902	-.1240	-.0926	-.1203	-.1743	-.2444	-.3112	-.3909	-.4642	-.4500	-.3291
100.000	-.1191	-.1434	-.1325	-.1193	-.1177	-.1579	-.1360	-.1745	-.1826	-.2810	-.2944	-.3828	-.4038	-.3944	-.2780
110.000	.0000	-.1630	-.1675	-.1664	-.1660	-.1976	-.1678	-.1950	-.2355	-.2592	-.3211	-.3777	-.3764	-.3643	.0000
120.000						-.2254								-.2664	
130.000						-.1637								-.1837	
140.000						-.1190								-.1591	
150.000						-.1131								-.1570	
160.000						-.1050								-.1397	
170.000						-.0961								-.1311	
180.000	-.1140	-.1098	-.0936	-.1042	-.1082	-.0783	-.1055	-.1282	-.1476	-.1489	-.1424	-.1400	-.1255	-.1125	-.0259

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0196		
70.000							-.0533	-.0520	.0000
80.000							-.0709	-.1049	-.0796
90.000	-.3138	-.2058	-.1249	-.0917	.0000	.0000	-.0719	-.1051	-.0862
100.000	-.2523	-.1481	-.0861	-.0197	-.0116	-.0439			
110.000	-.2083	-.1014	.0035	.0901	.0560	-.0615			
120.000						-.0768			
130.000						-.0528			
140.000						-.2271			
150.000						-.0755			
160.000						.0099			
170.000						.0329			
180.000	-.1841	.0081	.0371	.0784	.1100	.2332			

AMES 60-030 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .831 ALPHA (1) = -8.427

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
80.000	.1218	.0147	-.2749												
85.000	.2068	.0484	-.1964												
90.000	.2336	.0313	-.1711												
95.000			-.2023	-.4894	-.8124	-.3789	-.1455	-.0795	-.0562	-.0555	-.0389	-.0260	-.0038	.0102	.0128
100.000						-.3423	-.1630	-.1067	-.0726	-.0389	-.0138	-.0349	-.0941	-.0245	.0077
110.000						-.5402	-.2378	-.1551	-.1010	-.0602	-.0233	-.0228	.0031	-.0230	.0112
120.000						-.7215								.0000	
130.000						-.6264								-.0208	
140.000						-.6367								-.0184	
150.000						-.3190								-.0471	
160.000						-.2751								-.0469	
170.000						-.2112								-.0444	
180.000						-.1706	-.1065	-.1090	-.1199	-.0951	-.0768	-.0733	-.0469	-.0474	-.0112

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	.0337	.0426	.0446	.0422	.0810	.0865	.1028	.1162	.1025	.0924	.0641	.0455	-.0077	.0142	.0026
100.000	.0154	-.0019	.0226	.0439	.0771	.0726	.0770	.0963	.1006	.0780	.0611	.0201	.0137	.0274	.0112
110.000	.0940	.0228	.0286	.0125	.0580	.0627	.0745	.0797	.0894	.0629	.0720	.0335	.0305	.0501	.0000
120.000						.0533								.0626	
130.000						.0169								.0705	
140.000						.0159								.0747	
150.000						.0316								.0737	
160.000						.0278								.0757	
170.000						.0293								.0675	
180.000	-.0362	-.0276	-.0066	.0000	.0144	.0122	.0139	-.0029	.0119	.0052	.0100	.0271	.0422	.0658	.1478

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0028		
85.000							-.0231	-.0579	.0000
90.000							-.0508	-.0948	-.0955
95.000	-.0126	.0591	.0357	.0154	.0000	.0000	-.0365	-.0919	-.0645
100.000	.0074	.0838	.0855	.0827	.0143	-.0734			
110.000	.0871	.0978	.1323	.1391	.0510	-.1119			
120.000						-.2008			
130.000						.0525			
140.000						.1266			
150.000						.2009			
160.000						.2673			
170.000						.4313			
180.000	.0700	.2031	.2931	.3270	.3603	.2876			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .851 ALPHA (2) = -6.236

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1126	.0056	-.2820												
70.000	.1934	.0383	-.1927												
80.000	.2961	.0346	-.1704												
90.000			-.1914	-.4850	-.8095	-.4335	-.1603	-.0843	-.0600	-.0798	-.0484	-.0387	-.0139	-.0057	-.0149
100.000						-.4288	-.1903	-.1130	-.0721	-.0509	-.0288	-.0469	-.0146	-.0520	-.0173
110.000						-.7622	-.2309	-.1432	-.0964	-.0627	-.0375	-.0237	-.0252	-.0464	-.0163
120.000						-.7496								.0000	
130.000						-.7724								-.0441	
140.000						-.5791								-.0500	
150.000						-.5647								-.0616	
160.000						-.5286								-.0658	
170.000						-.2558								-.0688	
180.000						-.2278	-.1063	-.0989	-.1130	-.1068	-.0801	-.0752	-.0641	-.0626	-.0564

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0195	.0175	.0341	.0460	.0608	.0601	.0723	.0765	.0718	.0410	.0220	-.0263	-.0466	-.0671	-.0448
100.000	-.0030	-.0112	.0014	.0242	.0559	.0467	.0440	.0577	.0661	.0145	.0257	-.0140	-.0330	-.0318	-.0377
110.000	.0000	-.0013	.0182	.0165	.0326	.0314	.0430	.0470	.0520	.0453	.0165	.0023	-.0140	-.0165	.0000
120.000						.0351								.0225	
130.000						.0031								.0388	
140.000						-.0064								.0309	
150.000						.0071								.0319	
160.000						.0063								.0448	
170.000						-.0117								.0341	
180.000	-.0518	-.0437	-.0210	-.0304	-.0148	-.0202	-.0297	-.0282	-.0315	-.0214	-.0049	-.0077	.0118	.0368	.1097

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0165		
70.000							-.0435	-.0395	.0000
80.000							-.0614	-.0984	-.0787
90.000	-.0767	.0043	-.0107	-.0064	.0000	.0000	-.0528	-.1058	-.0894
100.000	-.0643	.0125	.0321	.0437	-.0097	-.0794			
110.000	.0102	.0635	.1061	.1172	.0337	-.1526			
120.000						-.1728			
130.000						.0573			
140.000						.0856			
150.000						.1729			
160.000						.2576			
170.000						.3917			
180.000	.0144	.1728	.2275	.2775	.3506	.2501			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .850 ALPHA (3) = -4.130

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3580	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1081	-.0063	-.2702												
70.000	.1809	.0370	-.1897												
80.000	.1919	.0280	-.1700												
90.000			-.1743	-.4761	-.8137	-.5116	-.1657	-.1063	-.0803	-.0971	-.0679	-.0547	-.0213	-.0158	-.0453
100.000						-.4627	-.1726	-.1319	-.0947	-.0666	-.0500	-.0659	-.0381	-.0611	-.0337
110.000						-.8856	-.2237	-.1686	-.1145	-.0765	-.0497	-.0297	-.0361	-.0640	-.0272
120.000						-.7506								-.0000	
130.000						-.9737								-.0653	
140.000						-.7320								-.0617	
150.000						-.6523								-.0737	
160.000						-.5636								-.0775	
170.000						-.3628								-.0675	
180.000						-.4490	-.1217	-.2153	-.1307	-.0946	-.0778	-.0685	-.0544	-.0779	-.0596

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0049	.0024	.0123	.0250	.0421	.0364	.0492	.0420	.0325	.0011	-.0180	-.0643	-.1129	-.1166	-.0957
100.000	-.0258	-.0215	-.0087	.0103	.0220	.0148	.0178	.0158	.0255	-.0238	-.0127	-.0600	-.0849	-.0834	-.0905
110.000	.0000	-.0112	-.0015	-.0057	.0066	-.0015	.0061	.0153	.0086	.0143	-.0203	-.0527	-.0603	-.0636	-.0300
120.000						-.0008								-.0339	
130.000						-.0210								-.0100	
140.000						-.0316								.0023	
150.000						-.0147								.0064	
160.000						-.0283								.0069	
170.000						-.0218								-.0007	
180.000	-.0534	-.0536	-.0361	-.0383	-.0324	-.0260	-.0462	-.0580	-.0497	-.0600	-.0259	-.0287	-.0069	.0056	.0751

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0144		
70.000							-.0358	-.0477	.0000
80.000							-.0606	-.0763	-.0708
90.000	-.1143	-.0514	-.0419	-.0514	.0000	.0000	-.0711	-.0858	-.0782
100.000	-.1076	-.0262	.0007	.0239	-.0352	-.0813			
110.000	-.0252	.0178	.0826	.1051	.0243	-.1420			
120.000						-.1663			
130.000						.0446			
140.000						.0451			
150.000						.1262			
160.000						.2263			
170.000						.3576			
180.000	-.0269	.1351	.1900	.2504	.3171	.2258			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB0:9)

MACH (3) = .849 ALPHA (4) = -2.065

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1012	.0057	-.2330												
70.000	.1723	.0480	-.1602												
80.000	.1750	.0228	-.1344												
90.000			-.1394	-.4195	-.7806	-.3969	-.1770	-.1299	-.0939	-.1060	-.0797	-.0638	-.0316	-.0259	-.0464
100.000						-.4468	-.2135	-.1512	-.1090	-.0834	-.0643	-.0819	-.0420	-.0726	-.0348
110.000						-.8231	-.2537	-.1840	-.1321	-.0991	-.0685	-.0469	-.0306	-.0659	-.0350
120.000						-.7508								.0000	
130.000						-.9694								-.0716	
140.000						-.7648								-.0738	
150.000						-.7121								-.0728	
160.000						-.7181								-.0733	
170.000						-.7014								-.0785	
180.000						-.6972	-.5126	-.3170	-.1797	-.1150	-.0713	-.0649	-.0518	-.0568	-.0570

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0133	-.0143	-.0089	.0030	.0092	.0097	.0311	.0199	.0041	-.0318	-.0697	-.1305	-.1798	-.1899	-.1592
100.000	-.0348	-.0484	-.0326	-.0133	.0000	-.0015	.0024	-.0006	.0004	-.0582	-.0639	-.1197	-.1532	-.1579	-.1490
110.000	.0000	-.0360	-.0207	-.0222	-.0138	-.0215	-.0057	-.0104	-.0167	-.0318	-.0677	-.1094	-.1278	-.1356	.0000
120.000						-.0355								-.0923	
130.000						-.0527								-.0534	
140.000						-.0540								-.0521	
150.000						-.0338								-.0370	
160.000						-.0396								-.0250	
170.000						-.0441								-.0245	
180.000	-.0859	-.0600	-.0467	-.0560	-.0551	-.0374	-.0575	-.0620	-.0590	-.0638	-.0599	-.0581	-.0358	-.0209	.0527

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0237		
70.000							-.0515	-.0461	.0000
80.000							-.0801	-.0918	-.0577
90.000	-.1900	-.0783	-.0671	-.0530	.0000	.0000	-.0865	-.0927	-.0770
100.000	-.1669	-.0811	-.0192	.0101	-.0340	-.1082			
110.000	-.0759	-.0120	.0640	.1042	.0193	-.1594			
120.000						-.1677			
130.000						.0318			
140.000						-.0046			
150.000						.0808			
160.000						.1931			
170.000						.3180			
180.000	-.0716	.1139	.1759	.2225	.2794	.1737			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .850 ALPHA (5) = .087

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0827	-.0040	-.2042												
70.000	.1428	.0360	-.1461												
80.000	.1364	.0638	-.1258												
90.000			-.1196	-.3838	-.7657	-.5156	-.1935	-.1469	-.1188	-.1265	-.0940	-.0752	-.0617	-.0456	-.0648
100.000						-.4779	-.2238	-.1761	-.1310	-.0992	-.0823	-.0970	-.0703	-.0873	-.0540
110.000						-.7918	-.2709	-.2183	-.1573	-.1151	-.0908	-.0789	-.0705	-.0932	-.0612
120.000						-.7377								.0000	
130.000						-.9684								-.0919	
140.000						-.7545								-.097	
150.000						-.6962								-.0864	
160.000						-.6937								-.0931	
170.000						-.7168								-.7696	
180.000						-.7478	-.5562	-.3860	-.2322	-.1466	-.0920	-.0782	-.0533	-.0535	-.0538

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.0365	-.0353	-.0246	-.0100	.0013	-.0088	.0047	-.0058	-.0269	-.0741	-.1086	-.1828	-.2496	-.2534	-.2611
100.000	-.0557	-.0522	-.0471	-.0263	-.0157	-.0308	-.0229	-.0327	-.0327	-.1043	-.1076	-.1757	-.2169	-.2217	-.2459
110.000	.0000	-.0498	-.0436	-.0414	-.0347	-.0451	-.0417	-.0365	-.0505	-.0797	-.1184	-.1684	-.1810	-.2021	-.2007
120.000						-.0646								-.1453	
130.000						-.0847								-.1036	
140.000						-.0827								-.0853	
150.000						-.0631								-.0639	
160.000						-.0598								-.0551	
170.000						-.0561								-.0534	
180.000	-.0584	-.0554	-.0517	-.0559	-.0591	-.0591	-.0679	-.0757	-.0736	-.0857	-.0717	-.0741	-.0594	-.0545	.0165

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0227		
70.000							-.0572	-.0377	.0000
80.000							-.0810	-.0784	-.0477
90.000	-.2785	-.1388	-.1034	-.0727	.0000	.0000	-.0884	-.0827	-.061
100.000	-.2702	-.1222	-.0484	-.0039	-.0512	-.0939			
110.000	-.1571	-.0579	.0408	.0888	.0189	-.1517			
120.000						-.1479			
130.000						.0198			
140.000						-.0496			
150.000						.0415			
160.000						.1687			
170.000						.2757			
180.000	-.1602	.0810	.1396	.1645	.2365	.1318			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .850 ALPHA (6) = 2.309

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0675	-.0123	-.1822												
70.000	.1257	.0323	-.1434												
80.000	.1979	.0236	-.1020												
90.000			-.1072	-.3591	-.7259	-.4079	-.2289	-.1745	-.1537	-.1512	-.1299	-.1054	-.0750	-.0644	-.0861
100.000						-.4495	-.2671	-.2069	-.1596	-.1435	-.1153	-.1299	-.0908	-.1235	-.0837
110.000						-.7021	-.3191	-.2609	-.2015	-.1601	-.1158	-.1144	-.0955	-.1191	-.0832
120.000						-.7437								.0000	
130.000						-.8943								-.1231	
140.000						-.7434								-.1107	
150.000						-.6870								-.0984	
160.000						-.7343								-.0787	
170.000						-.7476								-.0731	
180.000						-.7576	-.6471	-.5428	-.3928	-.2463	-.1750	-.1043	-.0644	-.0576	-.0492

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0571	-.0504	-.0440	-.0218	-.0172	-.0238	-.0118	-.0306	-.0584	-.1153	-.1546	-.2315	-.3160	-.3343	-.3380
100.000	-.0768	-.0728	-.0720	-.0496	-.0371	-.0523	-.0544	-.0642	-.0660	-.1427	-.1509	-.2260	-.2837	-.2947	-.3188
110.000	.0000	-.0696	-.0713	-.0614	-.0639	-.0730	-.0667	-.0687	-.0928	-.1301	-.1714	-.2223	-.2483	-.2746	.0000
120.000						-.0998								-.2115	
130.000						-.1121								-.1544	
140.000						-.0986								-.1261	
150.000						-.0715								-.0957	
160.000						-.0735								-.0820	
170.000						-.0660								-.0782	
180.000	-.0499	-.0516	-.0487	-.0622	-.0595	-.0637	-.0730	-.0785	-.1001	-.1056	-.0955	-.1012	-.0870	-.0769	-.0173

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0202		
70.000							-.0629	-.0420	.0000
80.000							-.0766	-.0809	-.0503
90.000	-.3836	-.2147	-.1321	-.0981	.0000	.0000	-.0866	-.0859	-.0738
100.000	-.3148	-.1760	-.0779	-.0268	-.0544	-.1068			
110.000	-.2295	-.1019	.0114	.0765	.0036	-.1405			
120.000						-.1424			
130.000						.0090			
140.000						-.1089			
150.000						-.0012			
160.000						.1141			
170.000						.2048			
180.000	-.2340	.0534	.1034	.1433	.1815	.1374			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .853 ALPHA (7) = 4.389

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0520	-.0195	-.1685												
70.000	.0964	.0205	-.1264												
80.000	.0804	.0047	-.0988												
90.000			-.0773	-.3414	-.6984	-.4523	-.2293	-.1951	-.1887	-.2108	-.1562	-.1453	-.1009	-.0899	-.0923
100.000						-.4831	-.2756	-.2448	-.2168	-.1921	-.1608	-.1672	-.1274	-.1499	-.0926
110.000						-.6777	-.2973	-.3150	-.2606	-.2227	-.1744	-.1607	-.1330	-.1739	-.0985
120.000						-.6885								.0000	
130.000						-.6725								-.1769	
140.000						-.6499								-.1551	
150.000						-.6624								-.1367	
160.000						-.6890								-.1288	
170.000						-.7001								-.1181	
180.000						-.7122	-.6801	-.6062	-.5584	-.4269	-.3143	-.1989	-.1198	-.0992	-.0396

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0837	-.0803	-.0815	-.0424	-.0333	-.0392	-.0273	-.0395	-.0749	-.1321	-.1821	-.2677	-.3572	-.3894	-.4074
100.000	-.0867	-.0892	-.0870	-.0706	-.0475	-.0693	-.0699	-.0807	-.0809	-.1675	-.1806	-.2699	-.3365	-.3487	-.3814
110.000	.0000	-.0924	-.0934	-.0975	-.0821	-.1019	-.0989	-.0969	-.1099	-.1488	-.2103	-.2669	-.3056	-.3253	.0000
120.000						-.1233								-.2559	
130.000						-.1293								-.1971	
140.000						-.1016								-.1627	
150.000						-.0752								-.1269	
160.000						-.0727								-.1134	
170.000						-.0642								-.1113	
180.000	-.0438	-.0429	-.0456	-.0551	-.0563	-.0595	-.0754	-.0884	-.0924	-.1049	-.1088	-.1205	-.1118	-.0951	-.0351

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0296		
70.000							-.0809	-.0603	.0000
80.000							-.0906	-.0986	-.0648
90.000	-.4833	-.3774	-.1750	-.1001	.0000	.0000	-.1019	-.1052	-.0762
100.000	-.4603	-.2791	-.1060	-.0264	-.0521	-.1151			
110.000	-.3417	-.1681	-.0077	.0651	-.0015	-.1423			
120.000						-.1286			
130.000						-.0079			
140.000						-.1499			
150.000						-.0353			
160.000						.0570			
170.000						.1175			
180.000	-.3184	.0149	.0597	.1024	.1386	.1626			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .855 ALPHA (8) = 6.500

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0398	-.0260	-.1553												
70.000	.0728	.0214	-.1036												
80.000	.0438	.0197	-.0877												
90.000			-.0737	-.3171	-.6812	-.3665	-.2247	-.2087	-.2031	-.2222	-.1834	-.1645	-.1167	-.1072	-.1184
100.000						-.4473	-.2659	-.2519	-.2397	-.2048	-.1761	-.1898	-.1448	-.1758	-.1209
110.000						-.4795	-.2932	-.3205	-.3067	-.2566	-.2171	-.1846	-.1712	-.1973	-.1475
120.000						-.6461								.0000	
130.000						-.6497								-.2003	
140.000						-.6321								-.1793	
150.000						-.6574								-.1749	
160.000						-.6836								-.1540	
170.000						-.6974								-.1265	
180.000						-.6859	-.6854	-.6496	-.5808	-.4963	-.3657	-.2591	-.1851	-.1328	-.0632

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0769	-.0732	-.0607	-.0471	-.0397	-.0556	-.0418	-.0625	-.0921	-.1637	-.2019	-.3002	-.3902	-.4178	-.4301
100.000	-.1074	-.1042	-.0910	-.0729	-.0646	-.0856	-.0898	-.0983	-.1110	-.2030	-.2087	-.2900	-.3713	-.3795	-.4280
110.000	.0000	-.1227	-.1093	- 1081	-.1025	-.1176	-.1132	-.1244	-.1458	-.1836	-.2355	-.3017	-.3427	-.3698	.0000
120.000						-.1511								-.2910	
130.000						-.1329								-.2191	
140.000						-.1105								-.1826	
150.000						-.0791								-.1614	
160.000						-.0801								-.1371	
170.000						-.0702								-.1304	
180.000	-.0544	-.0344	-.0434	-.0429	-.0522	-.0642	-.0742	-.0941	-.1048	-.1217	-.1251	-.1251	-.1236	-.1105	-.0589

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0421		
70.000							-.0962	-.0685	.0000
80.000							-.1153	-.1415	-.0802
90.000	-.5170	-.4030	-.1828	-.1032	.0000	.0000	-.1280	-.1476	-.0887
100.000	-.4914	-.3100	-.1329	-.0314	-.0474	-.1064			
110.000	-.3821	-.2073	-.0191	.0491	.0104	-.1271			
120.000						-.0908			
130.000						-.0049			
140.000						-.1869			
150.000						-.0666			
160.000						.0078			
170.000						.0495			
180.000	-.3644	-.0125	.0222	.0707	.1021	.2057			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = .847 ALPHA (9) = 8.629

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0127	-.0363	-.1497												
70.000	.0334	.0032	-.0996												
80.000	-.0015	.0117	-.0730												
90.000			-.0561	-.3088	-.6669	-.3275	-.2240	-.2085	-.2135	-.2434	-.2063	-.1759	-.1494	-.1284	-.1331
100.000						-.3419	-.2790	-.2723	-.2583	-.2247	-.1926	-.2110	-.1821	-.2044	-.1321
110.000						-.4157	-.3024	-.3507	-.3415	-.2733	-.2342	-.2111	-.2161	-.2215	.1593
120.000						-.5168								[illegible]	
130.000						-.5494								-.2171	
140.000						-.6086								-.1977	
150.000						-.6602								-.1742	
160.000						-.7028								-.1[illegible]4	
170.000						-.7093								-.1492	
180.000						-.7095	-.7022	-.6701	-.5807	-.4955	-.3794	-.3114	-.2019	-.1375	-.0652

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7190
PHI															
90.000	-.0984	-.0768	-.0785	-.0545	-.0490	-.0654	-.0623	-.0717	-.1196	-.1862	-.2390	-.3324	-.4249	-.4[illegible]	-.4806
100.000	-.1271	-.1142	-.1211	-.0797	-.0723	-.0971	-.1050	-.1256	-.1324	-.2336	-.2416	-.3392	-.4[illegible]60	-.4164	-.4842
110.000	.0000	-.1417	-.1308	-.1347	-.1323	-.1434	-.1405	-.1544	-.1788	-.2305	-.2794	-.3546	-.3858	-.4166	.0000
120.000						-.1704								-.3084	
130.000						-.1544								-.2451	
140.000						-.1335								-.1858	
150.000						-.1113								-.1818	
160.000						-.1019								-.1626	
170.000						-.0926								-.1[illegible]	
180.000	-.0587	-.0421	-.0446	-.0540	-.0572	-.0790	-.0866	-.1007	-.1249	-.1377	-.1311	-.1555	-.1318	-.1215	-.0874

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0831		
70.000							-.1280	-.1605	.0000
80.000							-.1507	-.1767	-.1166
90.000	-.5830	-.3981	-.1497	-.0893	.0000	.0000	-.1622	-.2004	-.1256
100.000	-.5587	-.2853	-.0995	-.0186	-.0425	-.0865			
110.000	-.4171	-.1764	-.0021	.0660	.0212	-.0908			
120.000						-.0626			
130.000						-.0229			
140.000						-.2298			
150.000						-.0877			
160.000						-.0134			
170.000						-.0084			
180.000	-.4040	-.0353	.0102	.0475	.0968	.2323			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .952 ALPHA (1) = -8.366

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2101	.1137	-.1403												
70.000	.2884	.1443	-.0750												
80.000	.3135	.1350	-.0530												
90.000			-.0775	-.3427	-.6588	-.6755	-.6801	-.6194	-.5467	-.5385	-.3909	-.2716	-.1704	-.1737	-.0811
100.000						-.6725	-.6891	-.6847	-.6273	-.5201	-.3934	-.2818	-.1815	-.2054	-.0818
110.000						-.7857	-.7429	-.7190	-.6746	-.5426	-.4103	-.2863	-.2347	-.2218	-.1755
120.000						-.5817								.0000	
130.000						-.7107								-.2929	
140.000						-.7369								-.3323	
150.000						-.6940								-.3528	
160.000						-.6417								-.3776	
170.000						-.5916								-.4046	
180.000						-.5101	-.4620	-.4045	-.3872	-.4041	-.4048	-.4124	-.4085	-.4140	-.3979

X/L	.4500	.4600	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0922	.0424	.0436	.0714	.1223	.1300	.1643	.1861	.1763	.1654	.1451	.1189	.0883	.0827	.0888
100.000	-.0866	-.0547	-.0027	.1103	.1121	.1392	.1497	.1633	.1793	.1527	.1553	.1180	.1035	.1013	.0974
110.000	.0000	-.0264	-.0208	.0688	.1198	.1179	.1411	.1561	.1636	.1657	.1430	.1249	.1170	.1122	.0000
120.000						.1242								.1307	
130.000						.1068								.1451	
140.000						.0938								.1456	
150.000						.1081								.1472	
160.000						.1030								.1479	
170.000						.0808								.1442	
180.000	-.3328	-.2214	-.0819	.0160	.0524	.0889	.0771	.0896	.0949	.1028	.1073	.1071	.1219	.1439	.2200

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0210		
70.000							-.0114	-.0502	.0000
80.000							-.0293	-.0791	-.0546
90.000	.0793	.1934	.1181	.1084	.0000	.0000	-.0351	-.0742	-.0613
100.000	.0784	.1435	.1459	.1519	.0919	.0049			
110.000	.1455	.1852	.2209	.2172	.1212	-.0560			
120.000						-.0809			
130.000						.1642			
140.000						.2203			
150.000						.2935			
160.000						.3620			
170.000						.4997			
180.000	.1519	.2873	.3497	.4108	.4699	.3754			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .949 ALPHA (2) = -8.253

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1883	.0942	-.1588												
70.000	.2593	.1330	-.0860												
60.000	.2724	.1179	-.0584												
90.000			-.0742	-.3704	-.6667	-.6867	-.6810	-.6170	-.5477	-.5542	-.4519	-.3389	-.2177	-.2186	-.1971
100.000						-.6855	-.6972	-.6889	-.6277	-.5426	-.4303	-.3445	-.2417	-.2558	-.1893
110.000						-.7850	-.7463	-.7356	-.6975	-.5658	-.4389	-.3164	-.2632	-.2369	-.1550
120.000						-.6077								.0000	
130.000						-.7724								-.3272	
140.000						-.8096								-.3492	
150.000						-.7580								-.3769	
160.000						-.7243								-.4195	
170.000						-.6679								-.4497	
180.000						-.5772	-.5312	-.4717	-.4486	-.4563	-.4591	-.4608	-.4583	-.4532	-.4278

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6901	.7100
PHI															
90.000	-.0455	.0002	.0518	.0832	.1222	.1262	.1409	.1474	.1467	.1318	.1053	.0671	.0270	.0142	.0176
100.000	-.0028	-.0081	.0483	.0743	.1138	.1092	.1241	.1386	.1423	.1155	.1076	.0694	.0419	.0443	.0282
110.000	.0000	.0113	.0513	.0848	.0871	.1045	.1244	.1325	.1327	.1230	.1002	.0787	.0634	.0559	.0000
120.000						.1029								.0787	
130.000						.0810								.0962	
140.000						.0754								.0978	
150.000						.0864								.1058	
160.000						.0764								.1104	
170.000						.0771								.1039	
180.000	-.1035	.0037	.0218	.0492	.0615	.0650	.0668	.0682	.0736	.0743	.0820	.0776	.0906	.1081	.1785

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0339		
70.000							-.0766	-.1085	.0000
60.000							-.0949	-.1446	-.0906
90.000	.0078	.0855	.0718	.0707	.0000	.0000	-.1076	-.1431	-.1047
100.000	.0083	.0928	.1172	.1254	.0618	-.0277			
110.000	.0889	.1398	.1883	.1960	.1002	-.0826			
120.000						-.0779			
130.000						.1496			
140.000						.1709			
150.000						.2432			
160.000						.3134			
170.000						.4495			
180.000	.0900	.2479	.3141	.3703	.4280	.3356			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .954 ALPHA (3) = -4.093

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1775	.0853	-.1600												
70.000	.2432	.1293	-.0885												
80.000	.2525	.1101	-.0577												
90.000			-.0607	-.3804	-.6616	-.6771	-.6648	-.5959	-.5371	-.5568	-.4881	-.4013	-.0800	-.0996	-.0364
100.000						-.6752	-.6858	-.6791	-.6026	-.5565	-.4716	-.3999	-.1571	-.2074	-.1858
110.000						-.7631	-.7254	-.7333	-.6969	-.5824	-.4802	-.3318	-.0649	-.1566	-.1640
120.000						-.6181								.0000	
130.000						-.8003								-.3500	
140.000						-.8598								-.3679	
150.000						-.8027								-.3983	
160.000						-.7726								-.4309	
170.000						-.7233								-.4595	
180.000						-.6234	-.5773	-.5246	-.4966	-.5040	-.5012	-.4636	-.4029	-.4654	-.4569

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1467	.0519	.0426	.0676	.0938	.0894	.1277	.1252	.1217	.0969	.0724	.0177	-.0352	-.0544	-.0437
100.000	-.1624	.0195	.0278	.0797	.0848	.0760	.1080	.1117	.1226	.0775	.0761	.0166	-.0219	-.0305	-.0364
110.000	.0000	.0320	.0577	.0632	.0748	.0885	.1039	.1046	.1080	.0927	.0671	.0272	.0034	-.0085	.0000
120.000						.0688								.0240	
130.000						.0675								.0456	
140.000						.0673								.0560	
150.000						.0747								.0680	
160.000						.0691								.0761	
170.000						.0 3								.0729	
180.000	-.1411	-.0404	.0290	.0477	.0424	.0617	.0564	.0575	.0580	.0622	.0595	.0541	.0590	.0826	.1424

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0727		
70.000							-.1157	-.1770	.0000
80.000							-.1353	-.2156	-.1326
90.000	-.0881	.0222	.0569	.0435	.0000	.0000	-.1419	-.2019	-.1437
100.000	-.0858	.0369	.0849	.1081	.0800	-.0409			
110.000	.0182	.0940	.1673	.1865	.1032	-.0695			
120.000						-.0731			
130.000						.1378			
140.000						.1234			
150.000						.1947			
160.000						.2723			
170.000						.4015			
180.000	.0222	.2193	.2850	.3454	.3951	.2877			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .949 ALPHA (4) = -1.949

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1465	.0666	-.1360												
70.000	.2098	.1081	-.0832												
80.000	.2191	.0922	-.0548												
90.000			-.0481	-.3798	-.6549	-.6721	-.6487	-.5583	-.5135	-.5328	-.4875	-.4241	-.1929	-.2650	-.2535
100.000						-.6735	-.6858	-.6456	-.5641	-.5344	-.4722	-.4338	-.3043	-.2713	-.2600
110.000						-.7553	-.7306	-.7244	-.6554	-.5729	-.4805	-.3554	-.3219	-.3152	-.2008
120.000						-.6586								.0000	
130.000						-.8304								-.3705	
140.000						-.9101								-.3897	
150.000						-.8483								-.4135	
160.000						-.8295								-.4364	
170.000						-.7844								-.4719	
180.000						-.6781	-.6347	-.5706	-.5330	-.5353	-.5198	-.5145	-.4990	-.4976	-.4419

X/L	.4500	.4680	.4840	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0105	-.0018	.0377	.0658	.0774	.1048	.0998	.0956	.0935	.0700	.0306	-.0302	-.0926	-.1159	-.1367
100.000	-.0123	.0109	.0328	.0504	.0579	.0839	.0881	.0886	.0870	.0460	.0322	-.0284	-.0717	-.0799	-.1233
110.000	.0000	-.0074	.0172	.0467	.0662	.0572	.0725	.0793	.0734	.0609	.0182	-.0188	-.0430	-.0634	.0000
120.000						.0560								-.0225	
130.000						.0305								.0066	
140.000						.0420								.0220	
150.000						.0541								.0387	
160.000						.0476								.0508	
170.000						.0516								.0583	
180.000	-.0244	-.0178	.0086	.0300	.0507	.0474	.0467	.0467	.0448	.0401	.0350	.0327	.0441	.0653	.1107

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0741		
70.000							-.1189	-.2409	.0000
80.000							-.1359	-.2795	-.1872
90.000	-.1701	-.0220	.0001	.0234	.0000	.0000	-.1395	-.2779	-.2030
100.000	-.1681	-.0147	.0515	.0879	.0340	-.0534			
110.000	-.0928	.0436	.1355	.1750	.0861	-.0957			
120.000						-.0697			
130.000						.1264			
140.000						.0848			
150.000						.1588			
160.000						.2445			
170.000						.3776			
180.000	-.0485	.1987	.2598	.3077	.3457	.2598			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .994 ALPHA (5) = .156

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1296	.0711	-.1348												
70.000	.1913	.1123	-.0620												
80.000	.1493	.1256	-.0245												
90.000			-.0201	-.5455	-.6160	-.6327	-.5669	-.4922	-.4684	-.4966	-.4913	-.4479	-.3567	-.3505	-.0808
100.000						-.6313	-.6371	-.5479	-.4978	-.5100	-.4906	-.4765	-.3445	-.3785	-.2634
110.000						-.7171	-.7002	-.6600	-.5888	-.5632	-.5031	-.4365	-.3521	-.3668	-.1790
120.000						-.6506								.0000	
130.000						-.8301								-.3569	
140.000						-.9432								-.3818	
150.000						-.8761								-.4068	
160.000						-.8583								-.4220	
170.000						-.8209								-.4586	
180.000						-.7085	-.6651	-.6008	-.5683	-.5528	-.5435	-.5112	-.4861	-.3774	-.2408

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0799	-.0887	-.0169	.0161	.0649	.0693	.0799	.1049	.0852	.0445	.0016	-.0610	-.1373	-.1621	-.1803
100.000	-.0852	-.1142	-.0294	.0096	.0700	.0686	.0716	.0792	.0797	.0227	.0014	-.0559	-.1139	-.1343	-.1737
110.000	.0000	-.1234	-.0698	.0217	.0341	.0464	.0602	.0700	.0600	.0392	-.0109	-.0561	-.0907	-.1151	.0000
120.000						.0113								-.0744	
130.000						.0172								-.0362	
140.000						.0345								-.0160	
150.000						.0514								.0116	
160.000						.0563								.0248	
170.000						.0547								.0340	
180.000	-.0708	-.0012	.0034	.0092	.0374	.0542	.0556	.0535	.0422	.0352	.0285	.0215	.0306	.0458	.1034

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0755		
70.000							-.1214	-.2566	.0000
80.000							-.1424	-.3164	-.2287
90.000	-.2491	-.1187	-.0486	-.0054	.0000	.0000	-.1506	-.3224	-.2553
100.000	-.2440	-.0858	-.0028	.0653	.0248	-.0611			
110.000	-.1280	-.0094	.1060	.1587	.0790	-.0912			
120.000						-.0646			
130.000						.1298			
140.000						.0548			
150.000						.1329			
160.000						.2150			
170.000						.3308			
180.000	-.1269	.1091	.2582	.2016	.3084	.2276			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .990 ALPHA (6) = 2.312

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

R/L	.0870	1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0907	.0327	-.1565												
70.000	.1467	.0838	-.0927												
80.000	.1297	.0680	-.0530												
90.000			-.0409	-.3896	-.6199	-.5624	-.4918	-.4617	-.4589	-.4944	-.4872	-.4582	-.3917	-.3554	-.1085
100.000						-.5652	-.5568	-.5111	-.4886	-.5058	-.4993	-.4900	-.1895	-.3815	-.0755
110.000						-.6856	-.6116	-.5984	-.5728	-.5854	-.5407	-.4770	-.4083	-.1406	-.0715
120.000						-.6615								.0000	
130.000						-.8726								-.3794	
140.000						-1.0110								-.37	
150.000						-.9468								-.3674	
160.000						-.9275								-.2633	
170.000						-.8944								-.2666	
180.000						-.7768	-.7102	-.6401	-.5867	-.5726	-.5427	-.3787	- 2564	-.299	-.0838

R/L	.4500	.4680	4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0122	.0303	.0322	.0498	.0718	.0667	.0657	.0611	.0593	-.0075	-.0351	-.1084	-.1900	-.2273	-.2553
100.000	-.0247	.0087	.0243	.0461	.0582	.0449	.0397	.0353	.0292	-.0340	-.0536	-.1089	-.1735	-.1937	-.2624
110.000	.0000	.0187	.0292	.0296	.0397	.0308	.0292	.0216	.0062	-.0205	-.0555	-.1131	-.1519	-.1838	.0000
120.000						.0018								-.1495	
130.000						-.0061								-.1025	
140.000						.0179								-.0776	
150.000						.0216								-.0501	
160.000						.0283								-.0261	
170.000						.0276								-.0137	
180.000	-.0082	.0496	.0387	.0308	.0479	.0348	.0220	.0176	.0037	-.0052	-.0047	-.0191	-.0154	-.0005	.0440

R/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1062		
70.000							-.1036	-.2792	.0000
80.000							-.1815	-.3489	-.2354
90.000	-.3387	-.2577	-.1818	-.0850	.0000	.0000	-.1913	-.3642	-.2877
100.000	-.3392	-.2281	-.1150	-.0048	-.0376	-.1096			
110.000	-.2550	-.1360	.0202	.0480	.0394	-.1378			
120.000						-.0931			
130.000						.002			
140.000						-.0148			
150.000						.0697			
160.000						.1552			
170.000						.2463			
180.000	-.2472	.1254	.1800	.2204	.2614	.2196			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .948 ALPHA (7) = 4.495

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0622	.0014	-.1670												
70.000	.1076	.0526	-.1044												
80.000	.0890	.0456	-.0580												
90.000			-.0345	-.3546	-.5300	-.5181	-.4569	-.4255	-.4171	-.4325	-.4160	-.4187	-.3914	-.3678	-.3127
100.000						-.5139	-.5267	-.4750	-.4553	-.4536	-.4392	-.4774	-.4245	-.4356	-.1784
110.000						-.6205	-.5895	-.5434	-.5376	-.5590	-.5271	-.4842	-.4315	-.4497	-.1754
120.000						-.6324								.0000	
130.000						-.8775								-.3877	
140.000						-1.0460								-.1970	
150.000						-.9818								-.3095	
160.000						-.9546								-.2345	
170.000						.9334								-.1956	
180.000						-.8114	-.7504	-.6611	-.6065	-.5602	-.4818	-.4382	-.1495	-.1845	-.0611

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0692	-.0159	.0067	.0397	.0481	.0497	.0562	.0499	.0268	-.0269	-.0712	-.1508	-.2307	-.2698	-.3045
100.000	-.0372	-.0298	.0018	.0171	.0450	.0341	.0261	.0214	0151	-.0618	-.0747	-.1532	-.2170	-.2356	-.3116
110.000	.0000	-.0164	.0034	-.0029	.0122	-.0017	.0004	-.0024	-.0210	-.0498	-.1006	-.1588	-.1989	-.2319	.0000
120.000						-.0407								-.2038	
130.000						-.0297								-.1480	
140.000						-.0084								-.1089	
150.000						.0105								-.0773	
160.000						.0163								-.0606	
170.000						.0266								-.0420	
180.000	-.0161	.0015	.0111	.0260	.0460	.0350	.0249	.0149	.0051	-.0119	-.0231	-.0347	-.0358	-.0259	.0243

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8[illegible]0	.9000	.9400
PHI									
60.000							-.1153		
70.000							-.1733	-.2793	.0000
80.000							-.1960	-.3542	-.2804
90.000	-.3781	-.3310	-.3074	-.1580	.0000	.0000	-.2094	-.3716	-.2915
100.000	-.3757	-.3152	-.2292	-.0571	-.0731	-.1548			
110.000	-.3149	-.2143	-.0314	.0636	-.0105	-.1655			
120.000						-.0979			
130.000						.0628			
140.000						-.0584			
150.000						.0311			
160.000						.1038			
170.000						.1612			
180.000	-.3141	.1084	.1580	.1926	.2164	.2370			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REBD19)

MACH (4) = .951 ALPHA (8) = 6.620

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0370	-.0093	-.1676												
70.000	.0779	.0363	-.0973												
80.000	.0484	.0597	-.0552												
90.000			-.0234	-.3428	-.5283	-.5243	-.4396	-.3927	-.3377	-.3844	-.3895	-.4052	-.3912	-.3929	-.2255
100.000						-.5197	-.5113	-.4551	-.3980	-.3980	-.4157	-.4746	-.4469	-.4829	-.2880
110.000						-.6142	-.5770	-.5422	-.4976	-.4958	-.5125	-.5148	-.4924	-.5018	-.1742
120.000						-.6265								.0000	
130.000						-.8681								-.3448	
140.000						-1.0710								-.2165	
150.000						-1.0180								-.1876	
160.000						-.9827								-.1675	
170.000						-.9623								-.1419	
180.000						-.8430	-.7627	-.6429	-.5965	-.5724	-.5088	-.3608	-.1493	-.1465	-.0588

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0228	.0128	.0274	.0364	.0552	.0388	.0459	.0370	.0026	-.0547	-.0919	-.1740	-.2633	-.3049	-.3381
100.000	-.0733	-.0285	.0079	.0176	.0318	.0158	.0103	-.0016	-.0086	-.0954	-.0957	-.1808	-.2502	-.2697	-.3537
110.000	.0000	-.0398	-.0148	-.0186	-.0079	-.0204	-.0211	-.0293	-.0516	-.0918	-.1326	-.1968	-.2386	-.2755	.0000
120.000						-.0590								-.2457	
130.000						-.0422								-.1784	
140.000						-.0230								-.1354	
150.000						-.0016								-.1093	
160.000						.0133								-.0947	
170.000						.0214								-.0735	
180.000	-.0179	.0088	.0221	.0288	.0436	.0338	.0186	.0026	-.0132	-.0309	-.0336	-.0561	-.0608	-.0545	-.0072

X/L	.7290	.7470	.7650	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1218		
70.000							-.1768	-.2817	.0000
80.000							-.2098	-.3500	-.3046
90.000	-.4107	-.3758	-.4005	-.2455	.0000	.0000	-.2204	-.3799	-.2937
100.000	-.4112	-.3864	-.3706	-.1173	-.1338	-.1766			
110.000	-.3568	-.2936	-.0910	.0169	-.0421	-.1944			
120.000						-.1064			
130.000						.0390			
140.000						-.1024			
150.000						.0109			
160.000						.0682			
170.000						.0649			
180.000	-.3493	.0837	.1192	.1568	.2022	.2905			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (4) = .950 ALPHA (9) = 8.750

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0222	-.0273	-.1717												
70.000	.0476	.0183	-.1034												
80.000	.0069	.0369	-.0626												
90.000			-.0291	-.2824	-.5546	-.5362	-.4086	-.3197	-.2815	-.3508	-.3722	-.3947	-.3763	-.3827	-.4306
100.000						-.5295	-.4866	-.4009	-.3350	-.3622	-.3963	-.4710	-.4430	-.4989	-.3042
110.000						-.6147	-.5604	-.5012	-.4360	-.4761	-.5054	-.5183	-.5338	-.5784	-.4615
120.000						-.6393								.0000	
130.000						-.8899								-.2398	
140.000						-1.1075								-.2234	
150.000						-1.0560								-.2086	
160.000						-1.0140								-.1878	
170.000						-.9955								-.1487	
180.000						-.8706	-.7672	-.6621	-.6182	-.4887	-.3534	-.2446	-.1714	-.1363	-.0885

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2934	-.1410	.0113	.0361	.0421	.0208	.0258	.0118	-.0208	-.0859	-.1093	-.1916	-.2837	-.3354	-.3835
100.000	-.2714	-.0563	-.0024	.0085	.0150	-.0133	-.0194	-.0348	-.0403	-.1311	-.1202	-.2043	-.2771	-.3061	-.4006
110.000	.0000	-.0595	-.0284	-.0342	-.0346	-.0545	-.0586	-.0718	-.0955	-.1308	-.1657	-.2297	-.2781	-.3237	.0000
120.000						-.0918								-.2901	
130.000						-.0518								-.2099	
140.000						-.0527								-.1779	
150.000						-.0203								-.1639	
160.000						-.0033								-.1629	
170.000						.0097								-.1253	
180.000	-.0452	-.0108	.0310	.0577	.0461	.0230	.0027	-.0156	-.0358	-.0504	-.0534	-.0715	-.0894	-.1044	-.0420

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0897		
70.000							-.1351	-.2462	.0000
80.000							-.1647	-.3077	-.3155
90.000	-.4603	-.4383	-.4746	-.3218	.0000	.0000	-.1852	-.3237	-.3210
100.000	-.4601	-.4414	-.3543	-.1806	-.1721	-.1729			
110.000	-.4002	-.3418	-.1342	-.0425	-.0738	-.1899			
120.000						-.0946			
130.000						.0340			
140.000						-.1222			
150.000						.0004			
160.000						.0519			
170.000						-.0074			
180.000	-.3975	.0128	.0811	.1349	.2091	.3591			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.050 ALPHA (1) = -8.332

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3353	.2511	-.0095												
70.000	.4070	.2780	.0691												
80.000	.4357	.2677	.0892												
90.000			.0704	-.1854	-.4675	-.4849	-.4881	-.4470	-.3933	-.3933	-.2937	-.1965	-.1193	-.0945	-.0783
100.000						-.4870	-.4976	-.4939	-.4567	-.3808	-.2793	-.2124	-.1364	-.1330	-.0868
110.000						-.5071	-.5462	-.5277	-.4941	-.4006	-.2909	-.2040	-.1542	-.1514	-.0943
120.000						-.3982								.0000	
130.000						-.5288								-.1925	
140.000						-.5544								-.2173	
150.000						-.5101								-.2306	
160.000						-.4711								-.2481	
170.000						-.4264								-.2622	
180.000						-.3532	-.3030	-.2598	-.2378	-.2501	-.2522	-.2637	-.2639	-.2686	-.2620

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0597	-.0731	-.0733	-.0774	-.0616	-.0192	.0627	.1131	.1459	.1614	.1540	.1383	.1228	.1187	.1329
100.000	-.0810	-.0924	-.0930	-.0966	-.0823	-.0519	.0263	.0827	.1379	.1444	.1540	.1402	.1318	.1387	.1403
110.000	.0000	-.0862	-.0868	-.1007	-.1011	-.0699	-.0142	.0638	.1164	.1444	.1449	.1428	.1432	.1484	.0000
120.000						-.1035								.1658	
130.000						-.1423								.1796	
140.000						-.1558								.1852	
150.000						-.1386								.1865	
160.000						-.1525								.1897	
170.000						-.1506								.1874	
180.000	-.2694	-.2611	-.2232	-.2143	-.1892	-.1501	-.1449	-.1207	-.0294	.0707	.1208	.1320	.1607	.1882	.2694

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1006		
70.000							.0697	.0242	.0000
80.000							.0528	.0006	.0184
90.000	.1362	.2370	.1909	.1936	.0000	.0000	.0387	.0016	.0112
100.000	.1362	.2057	.2063	.2368	.1858	.1041			
110.000	.1950	.2493	.2948	.2948	.2084	.0598			
120.000						.0563			
130.000						.2856			
140.000						.3141			
150.000						.3815			
160.000						.4471			
170.000						.5643			
180.000	.2906	.3510	.4262	.4824	.5405	.4590			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.049 ALPHA (2) = -6.210

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3193	.2411	-.0112												
70.000	.3887	.2749	.0748												
80.000	.4060	.2639	.0951												
90.000			.0860	-.2167	-.4678	-.4934	-.4965	-.4515	-.4007	-.4156	-.3349	-.2337	-.1510	-.1204	-.1144
100.000						-.4938	-.5090	-.5045	-.4629	-.4076	-.3243	-.2419	-.1621	-.1516	-.1129
110.000						-.5858	-.5499	-.5423	-.5178	-.4306	-.3278	-.2341	-.1705	-.1579	-.1193
120.000						-.4251								.0000	
130.000						-.5722								-.2101	
140.000						-.6142								-.2367	
150.000						-.5617								-.2611	
160.000						-.5300								-.2817	
170.000						-.4848								-.3024	
180.000						-.4004	-.3665	-.3196	-.2920	-.2959	-.2916	-.3029	-.2982	-.3114	-.2945

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6980	.7100
PHI															
90.000	-.0842	-.1055	-.1018	-.1061	-.0886	-.0441	.0464	.0941	.1152	.1180	.1121	.0838	.0507	.0403	.0440
100.000	-.1007	-.1224	-.1191	-.1228	-.1055	-.0652	.0123	.0714	.1016	.1077	.1123	.0884	.0655	.0625	.0577
110.000	.0000	-.1140	-.1157	-.1266	-.1256	-.0913	-.0116	.0445	.0826	.1172	.1054	.0946	.0864	.0826	.0000
120.000						-.1303								.1097	
130.000						-.1739								.1248	
140.000						-.1824								.1341	
150.000						-.1665								.1408	
160.000						-.1732								.1545	
170.000						-.1627								.1517	
180.000	-.3016	-.2699	-.2509	-.2379	-.2058	-.1553	-.1390	-.1010	-.0127	.0721	.0907	.1020	.1261	.1554	.2365

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0749		
70.000							.0427	-.0460	.0000
80.000							.0253	-.0714	-.0295
90.000	.0501	.1751	.1534	.1638	.0000	.0000	.0113	-.0646	-.0400
100.000	.0514	.1616	.1827	.2133	.1706	.0858			
110.000	.1357	.2055	.2601	.2781	.1927	.0515			
120.000						.0639			
130.000						.2764			
140.000						.2751			
150.000						.3389			
160.000						.4027			
170.000						.5129			
180.000	.1425	.3247	.3853	.4489	.4956	.4232			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = 1.050 ALPHA (3) = -4.067

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3011	.2319	-.0095												
70.000	.3644	.2678	.0729												
80.000	.3792	.2547	.0982												
90.000			.0989	-.2066	-.4570	-.4787	-.4786	-.4292	-.3774	-.4012	-.3458	-.2858	-.1932	-.1639	-.1353
100.000						-.4785	-.4984	-.4900	-.4322	-.4025	-.3361	-.2894	-.1971	-.1966	-.1319
110.000						-.5595	-.5334	-.5345	-.5111	-.4300	-.3451	-.2528	-.1924	-.1947	-.1383
120.000						-.4256								.0000	
130.000						-.5919								-.2214	
140.000						-.6510								-.2469	
150.000						-.5969								-.2665	
160.000						-.5778								-.2896	
170.000						-.5358								-.3127	
180.000						-.4391	-.4040	-.3602	-.3318	-.3354	-.3404	-.3338	-.3262	-.3257	-.3106

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5990	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0930	-.1036	-.0963	-.0989	-.0969	-.0396	.0348	.0856	.1105	.1105	.0919	.0548	.0126	-.0114	-.0298
100.000	-.1122	-.1245	-.1140	-.1198	-.1070	-.0779	-.0032	.0623	.1009	.0912	.0914	.0544	.0262	.0083	-.0191
110.000	.0000	-.1170	-.1093	-.1252	-.1305	-.1164	-.0402	.0451	.0854	.0998	.0841	.0609	.0436	.0206	.0000
120.000						-.1442								.0576	
130.000						-.1751								.0774	
140.000						-.1740								.0865	
150.000						-.1470								.1031	
160.000						-.1385								.1097	
170.000						-.1214								.1078	
180.000	-.3154	-.3058	-.2543	-.2158	-.1621	-.1207	-.1020	-.0463	.0344	.0630	.0742	.0792	.0981	.1197	.2077

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0647		
70.000							.0262	-.0891	.0000
80.000							.0051	-.1333	-.0893
90.000	-.0420	.0736	.0986	.1309	.0000	.0000	-.0008	-.1339	-.0908
100.000	-.0438	.0779	.1385	.1917	.1518	.0723			
110.000	.0437	.1410	.2304	.2646	.1821	.0381			
120.000						.0610			
130.000						.2643			
140.000						.2378			
150.000						.3046			
160.000						.3673			
170.000						.4757			
180.000	.0525	.3015	.3676	.4163	.4568	.3837			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.053 ALPHA (4) = -1.967

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2751	.2167	.0004												
70.000	.3357	.2476	.0724												
80.000	.3443	.2371	.1005												
90.000			.1063	-.2025	-.4492	-.4751	-.4668	-.4014	-.3593	-.3808	-.3434	-.2960	-.2243	-.1921	-.1511
100.000						-.4723	-.4889	-.4733	-.4089	-.3870	-.3580	-.3061	-.2213	-.2234	-.1503
110.000						-.5476	-.5276	-.5321	-.4964	-.4275	-.3503	-.2748	-.2159	-.2234	-.1567
120.000						-.4376								.0000	
130.000						-.6161								-.2370	
140.000						-.6991								-.2607	
150.000						-.6424								-.2797	
160.000						-.6225								-.3038	
170.000						-.5905								-.3272	
180.000						-.4874	-.4531	-.4061	-.3689	-.3651	-.3576	-.3618	-.3460	-.3407	-.3247

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1170	-.1212	-.1122	-.1158	-.1148	-.0668	.0189	.0739	.1003	.0885	.0722	.0249	-.0322	-.0639	-.0894
100.000	-.1298	-.1432	-.1361	-.1340	-.1263	-.1022	-.0177	.0524	.0986	.0728	.0722	.0269	-.0161	-.0361	-.0861
110.000	.0000	-.1363	-.1325	-.1449	-.1442	-.1278	-.0481	.0355	.0776	.0731	.0578	.0267	.0026	-.0279	.0000
120.000						-.1570								-.0096	
130.000						-.1753								.0202	
140.000						-.1597								.0325	
150.000						-.1304								.0548	
160.000						-.1178								0656	
170.000						-.1000								.0772	
180.000	-.3232	-.3004	-.2285	-.1692	-.1376	-.0924	-.0828	-.0203	.0393	.0526	.0585	.0516	.0684	.0914	.1703

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0462		
70.000							.0051	-.1014	.0000
80.000							-.0145	.1564	-.1183
90.000	-.1387	-.0515	.0055	.0786	.0000	.0000	-.0266	-.1714	-.1152
100.000	-.1426	-.0252	.0138	.1419	.1064	.0318			
110.000	-.0833	.0463	.1730	.2200	.1453	.0003			
120.000						.0478			
130.000						.2412			
140.000						.1879			
150.000						.2570			
160.000						.3267			
170.000						.4377			
180.000	-.0542	.2661	.3311	.3699	.4030	.3257			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.047 ALPHA (5) = .183

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2331	.1792	-.0059												
70.000	.2905	.2191	.0577												
80.000	.2971	.2342	.0880												
90.000			.1016	-.2083	-.4504	-.4730	-.4206	-.3411	-.3093	-.3467	-.3304	-.3091	-.2577	-.2371	-.2052
100.000						-.4730	-.4822	-.4049	-.3476	-.3547	-.3340	-.3304	-.2686	-.2755	-.1967
110.000						-.5466	-.5196	-.5095	-.4285	-.4139	-.3562	-.3071	-.2622	-.2637	-.1939
120.000						-.4659								.0000	
130.000						-.6496								-.2592	
140.000						-.7609								-.2746	
150.000						-.7008								-.2894	
160.000						-.6819								-.3136	
170.000						-.6532								-.3250	
180.000						-.5501	-.4994	-.4512	-.4079	-.4010	-.3859	-.3825	-.3368	-.3525	-.3320

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1594	-.1462	-.1284	-.1329	-.1302	-.0730	.0288	.0778	.0926	.0678	.0504	-.0015	-.0684	-.1009	-.1348
100.000	-.1774	-.1704	-.1518	-.1522	-.1419	-.0983	-.0040	.0596	.0840	.0488	.0473	-.0028	-.0505	-.0739	-.1384
110.000	.0000	-.1670	-.1550	-.1682	-.1622	-.1263	-.0178	.0452	.0620	.0540	.0350	-.0024	-.0333	-.0643	.0000
120.000						-.1492								-.0516	
130.000						-.1429								.0204	
140.000						-.1251								-.0037	
150.000						-.0856								.0163	
160.000						-.0797								.0342	
170.000						-.0644								.0484	
180.000	-.3022	-.2309	-.1693	-.1389	-.1055	-.0679	-.0224	.0215	.0372	.0398	.0437	.0363	.0385	.0605	.1247

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9490
PHI									
60.000							.0051		
70.000							-.0431	-.1242	.0000
80.000							-.0639	-.1852	-.1676
90.000	-.2032	-.1450	-.1152	.0054	.0000	.0000	-.0707	-.2060	-.1624
100.000	-.1999	-.1311	-.0522	.0823	.0665	-.0146			
110.000	-.1448	-.0469	.1104	.1781	.1144	-.0247			
120.000						.0358			
130.000						.2179			
140.000						.1365			
150.000						.2051			
160.000						.2801			
170.000						.3735			
180.000	-.1433	.2279	.2808	.3118	.3390	.2801			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.051 ALPHA (6) = 2.339

SECTION (11)RB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1991	.1526	-.0081												
70.000	.2627	.1898	.0535												
80.000	.2444	.1941	.0901												
90.000			.1075	-.1967	-.4581	-.4438	-.3104	-.2786	-.2767	-.3244	-.3312	-.3334	-.2704	-.2474	-.2265
100.000						-.4440	-.4002	-.3274	-.3078	-.3334	-.3420	-.3652	-.2869	-.2943	-.2081
110.000						-.5172	-.4951	-.4045	-.3832	-.4042	-.3830	-.3298	-.2973	-.2918	-.2083
120.000						-.4594								.0000	
130.000						-.6517								-.2662	
140.000						-.7790								-.2741	
150.000						-.7211								-.2839	
160.000						-.6992								-.3016	
170.000						-.6803								-.3206	
180.000						-.5755	-.5344	-.4837	-.4405	-.4315	-.4094	-.3611	-.3362	-.3285	-.2717

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1680	-.1588	-.1492	-.1457	-.1351	-.0285	.0665	.1078	.1093	.0801	.0463	-.0195	-.0961	-.1320	-.1559
100.000	-.1804	-.1823	-.1680	-.1688	-.1509	-.0616	.0478	.0855	.1022	.0575	.0427	-.0228	-.0819	-.1048	-.1625
110.000	.0000	-.1835	-.1752	-.1912	-.1771	-.0746	.0386	.0723	.0747	.0605	.0194	-.0302	-.0663	-.1048	.0000
120.000						-.0819								-.0926	
130.000						-.0618								-.0559	
140.000						-.0327								-.0311	
150.000						-.0148								-.0089	
160.000						-.0059								.0100	
170.000						.0024								.0255	
180.000	-.2126	-.1654	-.1248	-.0887	-.0518	.0125	.0431	.0609	.0648	.0618	.0448	.0295	.0285	.0392	.1110

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000									
70.000							-.0177		
80.000							-.0750	-.1479	.0000
90.000	-.2203	-.1827	-.2057	-.0631	.0000	.0000	-.0997	-.2124	-.2176
100.000	-.2222	-.1911	-.1611	.0503	.0411	-.0305	-.1053	-.2400	-.2153
110.000	-.1777	-.1248	.0656	.1664	.0997	-.0449			
120.000						.0291			
130.000						.1889			
140.000						.0862			
150.000						.1602			
160.000						.2284			
170.000						.3094			
180.000	-.1734	.2102	.2617	.2942	.3078	.2801			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (5) = 1.052 ALPHA (7) = 4.507

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1679	.1162	-.0432												
70.000	.2113	.1599	.0239												
80.000	.1959	.1535	.0746												
90.000			.1001	-.2044	-.4546	-.4611	-.2510	-.2237	-.2345	-.2859	-.2983	-.2951	-.2565	-.2478	-.2527
100.000						-.4488	-.3612	-.2782	-.2668	-.2936	-.3121	-.3459	-.2924	-.3107	-.2442
110.000						-.5204	-.4924	-.3607	-.3395	-.3717	-.3805	-.3527	-.3169	-.3282	-.2449
120.000						-.4827								.0000	
130.000						-.6812								-.2904	
140.000						-.8300								-.2887	
150.000						-.7732								-.2930	
160.000						-.7447								-.2983	
170.000						-.7275								-.3037	
180.000						-.6246	-.5715	-.5207	-.4705	-.4546	-.4182	-.3666	-.3205	-.2975	-.2188

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2015	-.1954	-.1741	-.1634	-.1272	.0209	.0883	.1148	.1034	.0589	.0314	-.0378	-.1157	-.1540	-.1921
100.000	-.2165	-.2133	-.1954	-.1869	-.1523	-.0022	.0671	.0896	.0909	.0306	.0280	-.0408	-.1008	-.1264	-.2032
110.000	.0000	-.2099	-.2022	-.2146	-.1888	-.0146	.0542	.0675	.0570	.0312	-.0013	-.0562	-.0943	-.1312	.0000
120.000						-.0078								-.1205	
130.000						-.0031								-.0738	
140.000						.0136								-.0456	
150.000						.0312								-.0180	
160.000						.0325								.0015	
170.000						.0381								.0151	
180.000	-.1838	-.1189	-.0813	-.0383	.0012	.0445	.0574	.0643	.0617	.0578	.0460	.0347	.0278	.0310	.0796

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0437		
70.000							-.0969	-.1568	.0000
80.000							-.1173	-.2255	-.2465
90.000	-.2554	-.2194	-.2906	-.1452	.0000	.0000	-.1255	-.2586	-.2490
100.000	-.2542	-.2423	-.2332	-.0059	-.0113	-.0766			
110.000	-.2164	-.1954	.0029	.1264	.0674	-.0799			
120.000						.0243			
130.000						.1712			
140.000						.0421			
150.000						.1254			
160.000						.1851			
170.000						.2257			
180.000	-.2151	.1727	.2203	.2526	.2774	.3179			

AMES 66-670 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (3) = 1.049 ALPHA (3) = 6.666

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1221	.0619	-.0606												
70.000	.1524	.1332	.0105												
80.000	.1206	.1526	.0548												
90.000			.0902	-.2073	-.4466	-.4191	-.2398	-.2198	-.2262	-.2675	-.2580	-.2750	-.2522	-.2544	-.2862
100.000						-.4290	-.3087	-.2709	-.2628	-.2769	-.2855	-.3381	-.3041	-.3453	-.2832
110.000						-.5130	-.4485	-.3450	-.3422	-.3732	-.3762	-.3629	-.3526	-.3705	-.3127
120.000						-.4896								.0000	
130.000						-.6955								-.3272	
140.000						-.8657								-.3048	
150.000						-.8173								-.2941	
160.000						-.7782								-.2875	
170.000						-.7690								-.2806	
180.000						-.6691	-.6176	-.5523	-.5007	-.4724	-.4127	-.3524	-.2939	-.2618	-.1715

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2454	-.2515	-.2105	-.1987	-.1152	.0483	.1103	.1187	.1002	.0477	.0167	-.0515	-.1359	-.1807	-.2205
100.000	-.2715	-.2701	-.2310	-.2177	-.1429	.0352	.0847	.0892	.0873	.0115	.0107	-.0635	-.1285	-.1568	-.2374
110.000	.0000	-.2536	-.2429	-.2429	-.1560	.0006	.0619	.0621	.0440	.0081	.0260	-.0848	-.1248	-.1699	.0000
120.000						-.0075								-.1596	
130.000						.0163								-.1018	
140.000						.0257								-.0609	
150.000						.0399								-.0150	
160.000						.0451								-.0263	
170.000						.0511								-.0088	
180.000	-.1295	-.0833	-.0543	-.0024	.0221	.0552	.0606	.0649	.0612	.0526	.0438	.0221	.0131	.0107	.0513

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0709		
70.000							-.1274	-.1760	.0000
80.000							-.1445	-.2490	-.2849
90.000	-.2842	-.2857	-.3322	-.2111	.0000	.0000	-.1470	-.2873	-.2931
100.000	-.2858	-.2846	-.3209	-.0355	-.0403	-.1297			
110.000	-.2471	-.2366	-.0578	.0971	.0520	-.0959			
120.000						.0201			
130.000						.1500			
140.000						-.0019			
150.000						.1067			
160.000						.1507			
170.000						.1437			
180.000	-.2457	.1278	.1914	.2515	.2669	.3619			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.055 ALPHA (9) = 8.697

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0713	.0353	-.0791												
70.000	.0906	.0999	-.0103												
80.000	.0420	.1177	.0435												
90.000			.0881	-.1315	-.4162	-.3031	-.2394	-.2242	-.2022	-.2358	-.2418	-.2587	-.2443	-.2561	-.3038
100.000						-.3038	-.2951	-.2825	-.2514	-.2499	-.2677	-.3244	-.2995	-.3600	-.3204
110.000						-.4674	-.3520	-.3591	-.3467	-.3505	-.3600	-.3717	-.3775	-.4248	-.3762
120.000						-.4811								.0000	
130.000						-.7009								-.3611	
140.000						-.8903								-.3103	
150.000						-.8506								-.2901	
160.000						-.8031								-.2612	
170.000						-.7954								-.2506	
180.000						-.7020	-.6359	-.5646	-.5188	-.4655	-.3921	-.3475	-.2661	-.2137	-.1256

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7110
PHI															
90.000	-.2733	-.2849	-.2574	-.2402	-.1509	.0822	.1239	.1306	.1027	.0426	.0130	-.0646	-.1526	.1975	-.2442
100.000	-.3268	-.3191	-.2772	-.2670	-.1514	.0743	.0982	.0941	.0851	-.0015	-.0020	-.0795	-.1496	.1740	.2641
110.000	.0000	-.3319	-.2768	-.2678	-.1661	.0464	.0645	.0553	.0327	-.0025	-.0324	-.1125	-.1541	-.1958	.2
120.000						-.0015								-.1836	
130.000						.0094								.1032	
140.000						.0139								.0765	
150.000						.0358								-.0953	
160.000						.0463								-.0553	
170.000						.0529								-.0275	
180.000	-.0877	-.0536	-.0272	.0024	.0349	.0572	.0619	.0626	.0551	.0414	.0317	.0065	-.0076	.0127	.0263

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0715		
70.000							-.1233	-.1812	.0000
80.000							-.1235	-.2424	-.2761
90.000	-.3103	-.2664	-.3580	-.2742	.0000	.0000	-.1592	-.2609	-.2051
100.000	-.3116	-.3048	-.3408	-.0985	-.0734	-.1504			
110.000	-.2774	-.2625	-.0884	.0551	.1337	-.1052			
120.000						.0315			
130.000						.1331			
140.000						-.0271			
150.000						.1008			
160.000						.1459			
170.000						.0684			
180.000	-.2697	.1024	.1735	.2253	.2824	.4432			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.115 ALPHA (1) = -8.369

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4077	.3275	.0779												
70.000	.4798	.3540	.1962												
80.000	.5031	.3447	.1746												
90.000			.1589	-.1003	-.3641	-.3842	-.3877	-.3517	-.3028	-.3053	-.2125	-.1258	-.0496	-.0218	-.0125
100.000						-.3855	-.3954	-.3958	-.3609	-.2942	-.2014	-.1429	-.0666	-.0600	-.0160
110.000						-.4056	-.4462	-.4270	-.3967	-.3137	-.2106	-.1304	-.0825	-.0748	-.0250
120.000						-.3010								.0000	
130.000						-.4265								-.1100	
140.000						-.4467								-.1338	
150.000						-.4058								-.1450	
160.000						-.3681								-.1586	
170.000						-.3216								-.1763	
180.000						-.2484	-.2123	-.1722	-.1500	-.1615	-.1636	-.1752	-.1752	-.1821	-.1761

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	.0120	.0001	-.0004	-.0089	-.0056	.0088	.0715	.1452	.1815	.1910	.1980	.1812	.1655	.1653	.1852
100.000	-.0072	-.0222	-.0185	-.0247	-.0185	-.0124	.0305	.1135	.1702	.1738	.1885	.1814	.1747	.1835	.2014
110.000	.0000	-.0185	-.0162	-.0289	-.0334	-.0269	.0102	.0830	.1395	.1702	.1777	.1800	.1908	.1934	.0000
120.000						-.0407								.2139	
130.000						-.0729								.2273	
140.000						-.0805								.2313	
150.000						-.0672								.2373	
160.000						-.0835								.2403	
170.000						-.0875								.2403	
180.000	-.1867	-.1815	-.1490	-.1395	-.1278	-.0864	-.0769	-.0680	-.0476	.0108	.1240	.1728	.2114	.2447	.3284

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1711		
70.000							.1432	.0896	.0000
80.000							.1259	.0681	.0874
90.000	.2334	.3039	.2677	.2609	.0000	.0000	.1117	.0687	.0814
100.000	.1252	.2733	.2627	.3053	.2609	.1731			
110.000	.2643	.3190	.3506	.3596	.2749	.1327			
120.000						.1315			
130.000						.3564			
140.000						.3797			
150.000						.4445			
160.000						.5065			
170.000						.6204			
180.000	.2841	.4191	.4878	.5459	.5977	.5226			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (RE0019)

MACH (0) = 1.110 ALPHA (2) = -6.184

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3883	.3120	.0897												
70.000	.4540	.3448	.1503												
80.000	.4732	.3348	.1739												
90.000			.1622	-.1234	-.3662	.3894	-.3895	-.3477	-.3030	-.3208	-.2495	-.1622	-.0768	-.0529	-.0351
100.000						-.3309	-.3987	-.3972	-.3623	-.3209	-.2353	-.1745	-.0920	-.0820	-.0353
110.000						-.4774	-.4394	-.4323	-.4150	-.3168	-.2412	-.1606	-.1036	-.0907	-.0433
120.000						-.3219								.0000	
130.000						-.4646								-.1352	
140.000						-.5053								-.1595	
150.000						-.4554								-.1734	
160.000						-.4272								-.1971	
170.000						-.3867								-.2 [illegible]	
180.000						-.2985	-.2600	-.2199	-.1461	-.2004	-.2009	-.2147	-.2172	-.2179	-.2031

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6930	.7100
PHI															
90.000	-.0116	-.0195	-.0199	-.0298	-.0273	-.0116	.0564	.1308	.1587	.1039	.1635	.1409	.1033	.0916	.0992
100.000	-.0276	-.0379	-.0352	-.0464	-.0392	-.0332	.0147	.0984	.1472	.1437	.1610	.1394	.1103	.1147	.1099
110.000	.0000	.0294	-.0327	-.0431	-.0531	-.0586	-.0121	.0706	.1204	.1443	.1511	.1426	.1182	.1348	.0000
120.000						-.0645								.1595	
130.000						-.1026								.1400	
140.000						-.1117								.1896	
150.000						-.0971								.2011	
160.000						-.1098								.2064	
170.000						-.1043								.2089	
180.000	-.2107	-.2011	-.1667	-.1569	-.1366	-.1001	-.0904	-.0760	-.0432	.0350	.1225	.1534	.1413	.2166	.2949

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9430
PHI									
60.000							.1548		
70.000							.1237	.0351	.0003
80.000							.1094	.0095	.0433
90.000	.1217	.2162	.2200	.2336	.0930	.0000	.0951	.0115	.0387
100.000	.1209	.2125	.2252	.2801	.2583	.1657			
110.000	.1698	.2618	.3230	.3577	.2637	.1351			
120.000						.1468			
130.000						.3527			
140.000						.3507			
150.000						.4128			
160.000						.4109			
170.000						.5741			
180.000	.1923	.3183	.3540	.5081	.3593	.4974			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (6) = 1.110 ALPHA (3) = -4.057

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3681	.2986	.0687												
70.000	.4325	.3331	.1467												
80.000	.4417	.3243	.1739												
90.000			.1718	-.1237	-.3669	-.3916	-.3849	-.3433	-.2969	-.3161	-.2607	-.1971	-.1259	-.1008	-.0777
100.000						-.3916	-.4008	-.3964	-.3550	-.3149	-.2523	-.2040	-.1296	-.1317	-.0735
110.000						-.4706	-.4336	-.4364	-.4200	-.3429	-.2584	-.1818	-.1275	-.1280	-.0777
120.000						-.3417								.0000	
130.000						-.4992								-.1508	
140.000						-.5559								-.1768	
150.000						-.5036								-.1938	
160.000						-.4817								-.2150	
170.000						-.4447								-.2381	
180.000						-.3527	-.3132	-.2724	-.2419	-.2413	-.2373	-.2472	-.2443	-.2487	-.2356

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0393	-.0397	-.0320	-.0347	-.0314	-.0222	.0427	.1143	.1446	.1444	.1413	.1098	.0648	.0401	.0170
100.000	-.0561	-.0584	-.0497	-.0509	-.0418	-.0420	.0019	.0871	.1300	.1239	.1408	.1079	.0748	.0621	.0248
110.000	.0000	-.0515	-.0480	-.0565	-.0580	-.0603	-.0242	.0597	.1072	.1260	.1289	.1096	.0922	.0721	.0000
120.000						-.0779								.0918	
130.000						-.1162								.1132	
140.000						-.1234								.1243	
150.000						-.1033								.1410	
160.000						-.1048								.1551	
170.000						-.0911								.1616	
180.000	-.2341	-.2258	-.1898	-.1721	-.1210	-.0853	-.0756	-.0511	-.0046	.0563	.1119	.1228	.1375	.1704	.2537

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1415		
70.000							.1064	-.0001	.0000
80.000							.0870	-.0456	-.0029
90.000	-.0100	.0935	.1333	.1747	.0000	.0000	.0761	-.0584	-.0022
100.000	-.0078	.1132	.1460	.2356	.2000	.1333			
110.000	.0724	.1793	.2720	.3045	.2369	.1032			
120.000						.1287			
130.000						.3296			
140.000						.3031			
150.000						.3674			
160.000						.4242			
170.000						.5265			
180.000	.0805	.3519	.4142	.4639	.5093	.4432			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (6) = 1.111 ALPHA (4) = -1.945

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3428	.2849	.0808												
70.000	.4022	.3167	.1509												
80.000	.4091	.3043	.1787												
90.000			.1873	-.1103	-.3501	-.3770	-.3684	-.3114	-.2690	-.2912	-.2588	-.2137	-.1606	-.1324	-.0858
100.000						-.3752	-.3897	-.3764	-.3154	-.2981	-.2536	-.2212	-.1633	-.1608	-.0850
110.000						-.4493	-.4196	-.4267	-.4002	-.3402	-.2672	-.2046	-.1552	-.1571	-.0890
120.000						-.3451								.0000	
130.000						-.5128								-.1604	
140.000						-.5932								-.1834	
150.000						-.5374								-.2007	
160.000						-.5205								-.2237	
170.000						-.4913								-.2470	
180.000						-.3908	-.3490	-.3083	-.2722	-.2718	-.2628	-.2775	-.2698	-.2619	-.2467

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0449	-.0446	-.0356	-.0427	-.0414	-.0433	.0181	.1035	.1369	.1355	.1317	.0957	.0432	.0144	-.0160
100.000	-.0816	-.0655	-.0560	-.0583	-.0526	-.0626	-.0292	.0784	.1290	.1158	.1296	.0970	.0602	.0393	-.0116
110.000	.0000	-.0564	-.0541	-.0676	-.0693	-.0776	-.0538	.0529	.1064	.1158	.1177	.0949	.0729	.0499	.0000
120.000						-.0956								.0606	
130.000						-.1259								.0830	
140.000						-.1202								.0941	
150.000						-.0895								.1117	
160.000						-.0840								.1248	
170.000						-.0696								.1355	
180.000	-.2420	-.2246	-.1735	-.1245	-.0871	-.0677	-.0559	-.0197	.0493	.0903	.1200	.1215	.1263	.1474	.2268

X/L	.7290	.7470	.7670	.7850	[illegible]	.8290	.8620	.9000	.9400
PHI									
60.000							.1210		
70.000							.0804	-.0199	.0000
80.000							.0598	-.0730	-.0490
90.000	-.0665	-.0016	.0537	.1331	.0000	.0000	.0452	-.0937	-.0422
100.000	-.0863	.0161	.0788	.2003	.1659	.0946			
110.000	-.0048	.1000	.2250	.2779	.2062	.0741			
120.000						.1286			
130.000						.3170			
140.000						.2655			
150.000						.3303			
160.000						.3974			
170.000						.4963			
180.000	.0010	.3265	.3871	.4263	.4634	.3952			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (6) = 1.111 ALPHA (5) = .179

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3098	.2602	.0848												
70.000	.3648	.3012	.1471												
80.000	.3652	.3135	.1776												
90.000			.1885	-.1072	-.3451	-.3691	-.3436	-.2599	-.2287	-.2594	-.2461	-.2315	-.1844	-.1605	-.1322
100.000						-.3706	-.3839	-.3375	-.2674	-.2663	-.2519	-.2482	-.1919	-.1993	-.1252
110.000						-.4364	-.4181	-.4190	-.3492	-.3246	-.2734	-.2249	-.1838	-.1848	-.1293
120.000						-.3601								.0000	
130.000						-.5370								-.1734	
140.000						-.6392								-.1914	
150.000						-.5849								-.2041	
160.000						-.5686								-.2290	
170.000						-.5460								-.2523	
180.000						-.4449	-.3960	-.3542	-.3148	-.3058	-.2981	-.2970	-.2731	-.2691	-.2523

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0886	-.0790	-.0634	-.0580	-.0568	-.0524	.0204	.1108	.1397	.1280	.1206	.0771	.0156	-.0147	-.0473
100.000	-.1017	-.0962	-.0809	-.0757	-.0672	-.0707	-.0138	.0889	.1292	.1083	.1183	.0738	.0290	.0095	-.0521
110.000	.0000	-.0921	-.0856	-.0914	-.0896	-.0937	-.0497	.0652	.1121	.1127	.1033	.0736	.0457	.0192	.0000
120.000						-.1079								.0307	
130.000						-.1144								.0639	
140.000						-.0967								.0819	
150.000						-.0677								.0999	
160.000						-.0616								.1150	
170.000						-.0520								.1280	
180.000	-.2330	-.1919	-.1243	-.0856	-.0645	-.0413	-.0214	.0286	.0872	.1083	.1273	.1236	.1263	.1397	.2020

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0876		
70.000							.0410	-.0378	.0000
80.000							.0219	-.0949	-.0929
90.000	-.1068	-.0719	-.0423	.0786	.0000	.0000	.0092	-.1196	-.0863
100.000	-.1092	-.0597	-.0180	.1570	.1375	.0725			
110.000	-.0579	.0209	.1783	.2516	.1885	.0581			
120.000						.1204			
130.000						.2947			
140.000						.2211			
150.000						.2884			
160.000						.3528			
170.000						.4456			
180.000	-.0531	.3007	.3521	.3831	.4129	.3538			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (6) = 1.114 ALPHA (6) = 2.283

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2741	.2247	.0741												
70.000	.3321	.2641	.1319												
80.000	.3192	.2681	.1680												
90.000			.1865	-.1077	-.3416	-.3572	-.2765	-.1907	-.1827	-.2230	-.2344	-.2478	-.2020	-.1884	-.1703
100.000						-.3593	-.3636	-.2519	-.2152	-.2319	-.2444	-.2805	-.2196	-.2370	-.1562
110.000						-.4260	-.4067	-.3715	-.2865	-.3007	-.2900	-.2480	-.2250	-.2391	-.1591
120.000						-.3661								.0000	
130.000						-.5487								-.2035	
140.000						-.6694								-.2089	
150.000						-.6181								-.2143	
160.000						-.5945								-.2339	
170.000						-.5775								-.2542	
180.000						-.4770	-.4353	-.3911	-.3471	-.3348	-.3253	-.2998	-.2694	-.2654	-.2366

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1200	-.1109	-.0850	-.0811	-.0759	-.0703	.0127	.1230	.1430	.1263	.1107	.0618	-.0060	-.0432	-.0755
100.000	-.1322	-.1312	-.1064	-.1006	-.0873	-.0910	-.0266	.0915	.1363	.1082	.1094	.0608	.0079	-.0145	-.0793
110.000	.0000	-.1254	-.1128	-.1194	-.1180	-.1169	-.0538	.0754	.1165	.1073	.0908	.0547	.0201	-.0107	.0000
120.000						-.1290								.0036	
130.000						-.1127								.0403	
140.000						-.0829								.0656	
150.000						-.0538								.0898	
160.000						-.0407								.1107	
170.000						-.0240								.1213	
180.000	-.1891	-.1412	-.0991	-.0718	-.0485	-.0130	.0246	.0656	.1105	.1230	.1240	.1205	.1100	.1361	.1905

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0565		
70.000							.0066	-.0552	.0000
80.000							-.0105	-.1180	-.1304
90.000	-.1294	-.1130	-.1254	.0104	.0000	.0000	-.0181	-.1470	-.1332
100.000	-.1310	-.1074	-.1068	.1170	.1063	.0372			
110.000	-.0902	-.0401	.1307	.2278	.1657	.0327			
120.000						.1113			
130.000						.2757			
140.000						.1713			
150.000						.2419			
160.000						.3033			
170.000						.3778			
180.000	-.0846	.2822	.3241	.3517	.3568	.3537			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.110 ALPHA (7) = 4.423

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2305	.1803	.0188												
70.000	.2692	.2205	.0895												
80.000	.2483	.2142	.1333												
90.000			.1655	-.1275	-.3680	-.3847	-.2719	-.1535	-.1519	-.2060	-.2177	-.2328	-.2074	-.2024	-.2070
100.000						-.3849	-.3842	-.2248	-.1851	-.2106	-.2330	-.2828	-.2390	-.2631	-.2008
110.000						-.4422	-.4246	-.3568	-.2587	-.2857	-.2978	-.2866	-.2638	-.2822	-.2068
120.000						-.3996								.0000	
130.000						-.5870								-.2457	
140.000						-.7289								-.2407	
150.000						-.6765								-.2405	
160.000						-.6445								-.2544	
170.000						-.6299								-.2704	
180.000						-.5411	-.4909	-.4472	-.3995	-.3819	-.3631	-.3248	-.2856	-.2737	-.2024

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1569	-.1527	-.1306	-.1269	-.1148	-.1100	-.0116	.0905	.1217	.0871	.0872	.0402	-.0317	-.0752	-.1069
100.000	-.1796	-.1747	-.1487	-.1477	-.1329	-.1364	-.0584	.0660	.1104	.0641	.0891	.0373	-.0175	-.0476	-.1165
110.000	.0000	-.1662	-.1577	-.1724	-.1681	-.1645	-.0916	.0513	.0796	.0541	.0656	.0293	-.0116	-.0493	.0000
120.000						-.1631								-.0362	
130.000						-.1317								.0126	
140.000						-.0961								.0461	
150.000						-.0647								.0725	
160.000						-.0442								.0914	
170.000						-.0273								.1056	
180.000	-.1581	-.1248	-.0917	-.0709	-.0533	-.0135	.0209	.0727	.1047	.1232	.1287	.1201	.1121	.1245	.1661

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0291		
70.000							-.0224	-.0810	.0000
80.000							-.0407	-.1501	-.1687
90.000	-.1645	-.1430	-.1929	-.0656	.0000	.0000	-.0423	-.1804	-.1726
100.000	-.1673	-.1597	-.1913	.0617	.0649	.0002			
110.000	-.1316	-.1033	.0780	.1904	.1471	.0050			
120.000						.1033			
130.000						.2462			
140.000						.1192			
150.000						.2003			
160.000						.2497			
170.000						.2940			
180.000	-.1206	.2270	.2812	.3095	.3380	.3741			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.110 ALPHA (8) = 6.609

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1816	.1398	-.0025												
70.000	.2071	.1675	.0730												
80.000	.1714	.2078	.1186												
90.000			.1640	-.1199	-.3521	-.3588	-.1702	-.1370	-.1412	-.2022	-.2089	-.2095	-.1904	-.1983	-.2230
100.000						-.3661	-.2849	-.1853	-.1723	-.2018	-.2262	-.2776	-.2430	-.2862	-.2848
110.000						-.4236	-.4019	-.2621	-.2444	-.2864	-.3068	-.3101	-.2966	-.3151	-.2896
120.000						-.4014								.0030	
130.000						-.6018								-.2797	
140.000						-.7650								-.2617	
150.000						-.7195								-.2531	
160.000						-.6806								-.2477	
170.000						-.6716								-.2571	
180.000						-.5889	-.5268	-.4629	-.4180	-.4021	-.3712	-.3232	-.2752	-.2423	-.1750

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1893	-.1950	-.1719	-.1547	-.1429	-.1319	-.0572	.0775	.1252	.0702	.0446	-.0099	-.0661	-.1031	-.1593
100.000	-.2213	-.2255	-.1856	-.1751	-.1601	-.1601	-.1019	.0475	.1173	.0371	.0433	-.0137	-.0562	-.0797	-.1603
110.000	.0000	-.2149	-.1929	-.2079	-.2025	-.1971	-.1402	.0247	.0756	.0293	.0122	-.0285	-.0494	-.0852	.0000
120.000						-.1937								-.0583	
130.000						-.1484								.0038	
140.000						-.1010								.0400	
150.000						-.0678								.0588	
160.000						-.0422								.0718	
170.000						-.0187								.0888	
180.000	-.1317	-.0995	-.0708	-.0590	-.0388	-.0025	.0120	.0626	.0953	.1028	.1137	.1053	.1093	.1015	.1380

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0141		
70.000							-.0433	-.1020	.0000
80.000							-.0529	-.1710	-.1982
90.000	-.2080	-.1781	-.2295	-.1246	.0000	.0000	-.0543	-.1970	-.2122
100.000	-.2098	-.1692	-.2102	.0135	.0223	-.0439			
110.000	-.1847	-.1371	.0329	.1521	.1279	-.0202			
120.000						.1009			
130.000						.2275			
140.000						.0812			
150.000						.1934			
160.000						.2241			
170.000						.1998			
180.000	-.1639	.1993	.2618	.2847	.3308	.4307			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.113 ALPHA (9) = 8.639

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1405	.1148	-.0061												
70.000	.1620	.1583	.0622												
80.000	.1036	.1817	.1175												
90.000			.1624	-.1093	-.3459	-.3038	-.1377	-.1281	-.1334	-.1699	-.1830	-.1816	-.1731	-.1796	-.2316
100.000						-.3136	-.1907	-.1757	-.1738	-.1907	-.1937	-.2429	-.2289	-.2750	-.2511
110.000						-.4031	-.3059	-.2458	-.2506	-.2813	-.2830	-.2910	-.2995	-.3420	-.3055
120.000						-.3974								.0000	
130.000						-.6058								-.3271	
140.000						-.7869								-.2848	
150.000						-.7464								-.2609	
160.000						-.7011								-.2497	
170.000						-.6949								-.2267	
180.000						-.6135	-.5478	-.4941	-.4386	-.4169	-.3577	-.3007	-.2321	-.1935	-.1262

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2084	-.2183	-.2067	-.2030	-.1843	-.1586	-.0847	.0928	.1323	.0821	.0512	-.0141	-.0820	-.1208	-.1763
100.000	-.2580	-.2640	-.2379	-.2250	-.1964	-.1858	-.1263	.0731	.1239	.0445	.0399	-.0240	-.0754	-.0980	-.1951
110.000	.0000	-.2762	-.2586	-.2464	-.2323	-.2219	-.1548	.0531	.0781	.0282	-.0078	-.0549	-.0777	-.1147	.0000
120.000						-.1719								-.0824	
130.000						-.1185								-.0076	
140.000						-.0891								.0134	
150.000						-.0490								.0117	
160.000						-.0263								.0364	
170.000						-.0044								.0652	
180.000	-.0918	-.0708	-.0515	-.0416	-.0229	.0035	.0322	.0641	.0861	.0926	.1060	.0930	.0888	.0842	.1095

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0063		
70.000							-.0567	-.1270	.0000
80.000							-.0799	-.1730	-.2004
90.000	-.2367	-.1939	-.2571	-.1851	.0000	.0000	-.1044	-.1936	-.2126
100.000	-.2381	-.2197	-.2493	-.0424	-.0192	-.0723			
110.000	-.1923	-.1551	.0012	.1011	.0877	-.0241			
120.000						.1189			
130.000						.2167			
140.000						.0601			
150.000						.1623			
160.000						.2378			
170.000						.1543			
180.000	-.1853	.1685	.2349	.2869	.3473	.5077			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (7) = 1.150 ALPHA (1) = -8.324

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4585	.3825	.1386												
70.000	.5304	.4090	.2134												
80.000	.5537	.3988	.2316												
90.000			.2085	-.0324	-.2984	-.3182	-.3160	-.2748	-.2287	-.2272	-.1295	-.0406	.0227	.0466	.0419
100.000						-.3174	-.3223	-.3213	-.2903	-.2103	-.1122	-.0552	.0082	.0096	.0386
110.000						-.4173	-.3713	-.3523	-.3258	-.2368	-.1328	-.0606	-.0001	-.0056	.0305
120.000						-.2374								.0000	
130.000						-.3574								-.0492	
140.000						-.3819								-.0709	
150.000						-.3354								-.0829	
160.000						-.2986								-.1000	
170.000						-.2568								-.1172	
180.000						-.1892	-.1387	-.0991	-.0852	-.0962	-.0989	-.1107	-.1073	-.1245	-.1162

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	6880	.7100
PHI															
90.000	.0700	.0602	.0594	.0413	.0445	.0453	.0977	.1607	.2008	.2110	.2176	.1990	.1755	.1702	.1941
100.000	.0474	.0409	.0372	.0243	.0315	.0272	.0650	.1249	.1826	.1895	.2113	.1939	.1790	.1894	.2069
110.000	.0000	.0519	.0374	.0256	.0186	.0160	.0409	.0961	.1535	.1860	.1980	.1920	.1920	.2010	.0000
120.000						.0115								.2201	
130.000						-.0221								.2321	
140.000						-.0277								.2391	
150.000						-.0138								.2456	
160.000						-.0240								.2550	
170.000						-.0221								.2522	
180.000	-.1160	-.1127	-.0884	-.0752	-.0592	-.0207	-.0242	-.0231	-.0132	.0078	.0702	.1283	.2115	.2593	.3495

X/L	.7290	.7470	.7670	.7830	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2107		
70.000							.1837	.1193	.0000
80.000							.1678	.0964	.1222
90.000	.2464	.3162	.3180	.2956	.0000	.0000	.1541	.0964	.1164
100.000	.2347	.2964	.3010	.3393	.2977	.2183			
110.000	.2795	.3452	.3919	.3919	.3136	.1833			
120.000						.1816			
130.000						.3996			
140.000						.4206			
150.000						.4828			
160.000						.5445			
170.000						.6548			
180.000	.2888	.4485	.5159	.5748	.6328	.5587			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (7) = 1.149 ALPHA (2) = -6.231

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0970	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4427	.3656	. 9												
70.000	.5078	.3974	.2074												
80.000	.5247	.3901	.2293												
90.000			.2178	-.0518	-.2978	-.3221	-.3246	-.2828	-.2359	-.2540	-.1713	-.0641	-.0090	.0077	.0244
100.000						-.3204	-.3350	-.3333	-.2966	-.2493	-.1507	-.0679	-.0240	-.0223	.0323
110.000						-.4087	-.3751	-.3708	-.3480	-.2744	-.1535	-.0886	-.0252	-.0313	.0323
120.000						-.2522								.0000	
130.000						-.3907								-.0570	
140.000						-.4258								-.0886	
150.000						-.3785								-.1139	
160.000						-.3473								-.1287	
170.000						-.3056								-.1451	
180.000						-.2249	-.1959	-.1574	-.1401	-.1456	-.1252	-.1532	-.1504	-.1522	-.1356

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0594	.0268	.0224	.0130	.0069	.0831	.0589	.1483	.1816	.1967	.1843	.1561	.1161	.1006	.0965
100.000	.0380	.0116	.0065	-.0049	-.0019	.0537	.0238	.1081	.1691	.1810	.1794	.1557	.1253	.1177	.1074
110.000	.0000	.0156	.0111	-.0069	-.0074	.0160	.0034	.0691	.1397	.1775	.1657	.1543	.1378	.1255	.0000
120.000						-.0035								.1365	
130.000						-.0552								.1478	
140.000						-.0628								.1531	
150.000						-.0455								.1702	
160.000						-.0558								.1835	
170.000						-.0506								.1900	
180.000	-.1540	-.1439	-.1151	-.1119	-.0669	-.0455	-.0481	-.0393	-.0147	.0212	.0647	.1075	.1682	.2084	.3132

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1965		
70.000							.1633	.0712	.0000
80.000							.1477	.0308	.0743
90.000	.1285	.2178	.2498	.2578	.0000	.0900	.1330	.0250	.0790
100.000	.1094	.2151	.2555	.3031	.2716	.1909			
110.000	.1867	.2716	.3468	.3590	.2639	.1687			
120.000						.1812			
130.000						.3866			
140.000						.3828			
150.000						.4457			
160.000						.5036			
170.000						.5993			
180.000	.1923	.4165	.4847	.5376	.5844	.5253			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (F) = 1.151 ALPHA (S) = -4.098

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4328	.3588	.1332												
70.000	.4955	.3914	.2111												
80.000	.5034	.3827	.2348												
90.000			.2325	-.0444	-.2901	-.3119	-.3042	-.2503	-.2038	-.2211	-.1598	-.0861	-.0108	.0072	.0283
100.000						-.3090	-.3167	-.3156	-.2549	-.2222	-.1468	-.0926	-.0240	-.0225	.0273
110.000						-.3928	-.3543	-.3588	-.3352	-.2401	-.1537	-.0663	-.0171	-.0244	.0182
120.000						-.2587								.0000	
130.000						-.4113								-.0549	
140.000						-.4633								-.0829	
150.000						-.4150								-.0975	
160.000						-.3918								-.1220	
170.000						-.3516								-.1451	
180.000						-.2671	-.2274	-.1845	-.1598	-.1558	-.1529	-.1605	-.1532	-.1568	-.1441

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0534	.0469	.0412	.0383	.0489	.0897	.1408	.1861	.2110	.2010	.1973	.1565	.1069	.0812	.0617
100.000	.0416	.0182	.0284	.0214	.0385	.0449	.1045	.1559	.2051	.1833	.1924	.1520	.1173	.1087	.0667
110.000	.0000	.0296	.0292	.0192	.0245	.0328	.0675	.1410	.1839	.1910	.1814	.1528	.1316	.1171	.0000
120.000						.0048								.1283	
130.000						-.0256								.1426	
140.000						-.0225								.1524	
150.000						.0087								.1642	
160.000						.0025								.1712	
170.000						.0208								.1736	
180.000	-.1455	-.1437	-.0983	-.0438	.0052	.0288	.0087	.0355	.0702	.1214	.1379	.1463	.1591	.1904	.2853

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1781		
70.000							.1449	.0448	.0000
80.000							.1267	.0004	.0448
90.000	.0964	.1358	.1972	.2156	.0000	.0000	.1170	-.0113	.0512
100.000	.0318	.1556	.1965	.2748	.2368	.1752			
110.000	.1106	.2177	.3074	.3453	.2725	.1440			
120.000						.1744			
130.000						.3738			
140.000						.3476			
150.000						.4091			
160.000						.4667			
170.000						.5626			
180.000	.1195	.3944	.4573	.5074	.5521	.4869			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (P) = 1.191 ALPHA (4) = -1.881

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3865	.3365	.1421												
70.000	.4437	.3772	.2059												
80.000	.4396	.3637	.2253												
90.000			.2339	-.0505	-.2811	-.3054	-.2838	-.2056	-.1692	-.1901	-.1555	-.1107	-.0205	-.0011	.0357
100.000						-.3047	-.3137	-.2832	-.2129	-.1942	-.1425	-.1132	-.0278	-.0256	.0294
110.000						-.3722	-.3465	-.3496	-.2942	-.2239	-.1574	-.0680	-.0252	-.0199	.0263
120.000						-.2664								.0000	
130.000						-.4293								-.0542	
140.000						-.5029								-.0736	
150.000						-.4523								-.0937	
160.000						-.4352								-.1231	
170.000						-.4016								-.1432	
180.000						-.3092	-.2708	-.2199	-.1899	-.1887	-.1844	-.1808	-.1628	-.1592	-.1421

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0626	.0347	.0422	.0306	.0349	.0540	.1625	.2201	.2262	.2093	.1844	.1334	.0851	.0545	.0306
100.000	.0337	.0133	.0218	.0160	.0235	.0324	.1382	.1987	.2148	.1887	.1630	.1389	.0971	.0773	.0378
110.000	.0000	.0190	.0220	.0071	.0020	.0129	.1376	.1856	.1952	.1956	.1616	.1377	.1069	.0832	.0000
120.000						.0042								.0896	
130.000						.0163								.1081	
140.000						.0417								.1159	
150.000						.0523								.1242	
160.000						.0476								.1353	
170.000						.0529								.1428	
180.000	-.1397	-.1002	-.0300	.0079	.0216	.0549	.0907	.1250	.1264	.1450	.1416	.1414	.1406	.1530	.2480

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1511		
70.000							.1109	.0167	.0000
80.000							.0898	-.0341	-.0097
90.000	.0043	.0467	.1205	.1596	.0000	.0000	.0756	-.0537	-.0005
100.000	-.0223	.0595	.1025	.2280	.2035	.1253			
110.000	.0349	.1314	.2592	.3105	.2396	.1063			
120.000						.1538			
130.000						.3443			
140.000						.2960			
150.000						.3624			
160.000						.4270			
170.000						.5222			
180.000	.0384	.3649	.4244	.4660	.4996	.4325			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (P) = 1.150 ALPHA (S) = .150

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3884	.3138	.1357												
90.000	.4323	.3393	.1930												
80.000	.4241	.3529	.2222												
90.000			.2352	-.0545	-.2746	-.2893	-.2117	-.1424	-.1222	-.1599	-.1422	-.1261	-.0667	-.0341	-.0047
100.000						-.2897	-.2911	-.2104	-.1607	-.1648	-.1371	-.1465	-.0718	-.0667	.0119
110.000						-.3559	-.3356	-.3146	-.2541	-.2080	-.1524	-.1099	-.0539	-.0564	.0093
120.000						-.2783								.0000	
130.000						-.4441								-.0574	
140.000						-.5419								-.0750	
150.000						-.4916								-.0916	
160.000						-.4696								-.1133	
170.000						-.4400								-.1376	
180.000						-.3429	-.3050	-.2549	-.2188	-.2145	-.2003	-.1877	-.1619	-.1522	-.1364

X/L	.4900	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0433	.0264	.0321	.0272	.0325	.0802	.1541	.2185	.2156	.1997	.1591	.1162	.0607	.0278	-.0126
100.000	.0184	-.0002	.0135	.0127	.0347	.0602	.1423	.1940	.2113	.1693	.1646	.1137	.0713	.0556	-.0169
110.000	.0000	.0083	.0154	.0022	.0026	.0196	.1321	.1776	.1768	.1803	.1421	.1107	.0611	.0560	.0000
120.000						.0036								.0656	
130.000						.0077								.0864	
140.000						.0141								.0960	
150.000						.0441								.1072	
160.000						.0594								.1188	
170.000						.0811								.1250	
180.000	-.1034	-.0312	.0235	.0518	.0622	.0905	.1037	.1084	.1380	.1415	.1348	.1327	.1319	.1403	.2072

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1145		
70.000							.0712	-.0009	.0000
80.000							.0507	-.0569	-.0551
90.000	-.0367	-.0281	-.0011	.0861	.0000	.0000	.0454	-.0858	-.0471
100.000	-.0584	-.0535	-.0013	.1832	.1676	.0916			
110.000	-.0281	.0356	.1993	.2797	.2052	.0825			
120.000						.1460			
130.000						.3210			
140.000						.2476			
150.000						.3153			
160.000						.3841			
170.000						.4711			
180.000	-.0222	.3268	.3894	.4273	.4485	.4004			

AMES 66-65S PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (P) = 1.190 ALPHA (B) = 2.309

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3421	.2837	.1326												
70.000	.3981	.3199	.1747												
80.000	.3933	.3155	.2084												
90.000			.2286	-.0591	-.2671	-.2104	-.1081	-.0804	-.0822	-.1304	-.1436	-.1403	-.0989	-.0804	-.0581
100.000						-.2239	-.1787	-.1214	-.1236	-.1320	-.1471	-.1610	-.1145	-.1224	-.0423
110.000						-.3537	-.3105	-.2009	-.1840	-.2003	-.1738	-.1585	-.1179	-.1165	-.0482
120.000						-.2936								.0000	
130.000						-.4716								-.1082	
140.000						-.5908								-.1171	
150.000						-.5370								-.1272	
160.000						-.5187								-.1455	
170.000						-.4945								-.1587	
180.000						-.3968	-.3435	-.2950	-.2460	-.2379	-.2077	-.1862	-.1682	-.1631	-.1033

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0082	.0228	.0286	.0186	.0296	.0855	.1178	.1866	.1919	.1615	.1551	.1034	.0363	.0022	-.0543
100.000	-.0143	-.0035	.0095	-.0015	.0153	.0655	.1053	.1666	.1797	.1413	.1506	.1028	.0464	.0284	-.0606
110.000	.0000	-.0007	.0020	-.0102	-.0121	.0420	.0933	.1450	.1411	.1435	.1314	.0938	.0560	.0273	.0000
120.000						.0326								.0298	
130.000						-.0260								.0558	
140.000						.0039								.0776	
150.000						.0222								.0928	
160.000						.0396								.1091	
170.000						.0561								.1193	
180.000	-.0439	.0060	.0268	.0647	.0718	.0543	.0780	.0913	.1213	.1311	.1467	.1351	.1244	.1347	.1828

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0898		
70.000							.0392	-.0224	.0000
80.000							.0211	-.0876	-.0950
90.000	-.0815	-.0845	-.0599	.0006	.0000	.0000	.0160	-.1175	-.0991
100.000	-.1040	-.1038	-.1150	.1197	.1146	.0645			
110.000	-.0758	-.0627	.1230	.2562	.1916	.0802			
120.000						.1481			
130.000						.3050			
140.000						.3988			
150.000						.2710			
160.000						.3408			
170.000						.4143			
180.000	-.0778	.2784	.3402	.3777	.4057	.3900			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (7) = 1.151 ALPHA (7) = 4.396

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3041	.2382	.0851												
70.000	.3328	.2780	.1322												
80.000	.3220	.2788	.1791												
90.000			.2121	-.0782	-.2987	-.3067	-.0764	-.0601	-.0625	-.0988	-.1192	-.1159	-.0768	-.0634	-.0547
100.000						-.3034	-.1499	-.1126	-.0841	-.1059	-.1369	-.1634	-.1009	-.1108	-.0430
110.000						-.3715	-.3449	-.1750	-.1577	-.1781	-.1937	-.1631	-.1210	-.1260	-.0539
120.000						-.3258								.0000	
130.000						-.4937								-.1048	
140.000						-.6228								-.1145	
150.000						-.5735								-.1114	
160.000						-.5479								-.1171	
170.000						-.5303								-.1191	
180.000						-.4287	-.3943	-.3354	-.3207	-.2845	-.2327	-.1811	-.1315	-.1031	-.0316

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0065	-.0134	-.0085	.0170	.0416	.0793	.1700	.2055	.2086	.1584	.1243	.0708	.0027	-.0320	-.0776
100.000	-.0239	-.0353	-.0318	.0010	.0182	.0528	.1366	.1796	.2029	.1361	.1231	.0606	.0157	-.0047	-.0835
110.000	.0000	-.0450	-.0381	-.0377	-.0341	.0463	.1304	.1639	.1596	.1276	.0974	.0516	.0227	-.0101	.0000
120.000						.0271								-.0130	
130.000						.0014								.0196	
140.000						.0423								.0478	
150.000						.0737								.0704	
160.000						.0798								.0888	
170.000						.0994								.1000	
180.000	-.0132	.0101	.0544	.0823	.0713	.0937	.1253	.1421	.1484	.1468	.1355	.1184	.1202	.1174	.1720

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0495		
70.000							.0049	-.0490	.0000
80.000							-.0037	-.1143	-.1270
90.000	-.0989	-.1038	-.1441	-.0561	.0000	.0000	-.0076	-.1479	-.1338
100.000	-.1245	-.1270	-.1577	.0920	.0997	.0110			
110.000	-.1010	-.0942	.0821	.2248	.1659	.0333			
120.000						.1415			
130.000						.2818			
140.000						.1475			
150.000						.2257			
160.000						.2958			
170.000						.3493			
180.000	-.1005	.2704	.3296	.3591	.3682	.3945			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (7) = 1.151 ALPHA (8) = 6.533

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2592	.2188	.0532												
70.000	.2923	.2672	.1172												
80.000	.2839	.2800	.1715												
90.000			.2256	-.0580	-.2813	-.2552	-.0673	-.0504	-.0484	-.0781	-.0824	-.0826	-.0792	-.0802	-.0968
100.000						-.2776	-.1398	-.1030	-.0695	-.1025	-.1027	-.1390	-.1227	-.1535	-.0934
110.000						-.3632	-.2706	-.1671	-.1655	-.1897	-.1887	-.1708	-.1556	-.1789	-.1221
120.000						-.3180								.0000	
130.000						-.5138								-.1351	
140.000						-.6724								-.1223	
150.000						-.6206								-.1075	
160.000						-.5848								-.0998	
170.000						-.5744								-.0899	
180.000						-.4825	-.4242	-.3705	-.3163	-.2975	-.2350	-.1586	-.1150	-.0887	-.0127

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0528	-.0583	-.0376	-.0251	.0039	.1244	.1675	.1934	.1951	.1328	.1054	.0495	-.0212	-.0610	-.1068
100.000	-.0731	-.0814	-.0500	-.0421	-.0016	.0918	.1420	.1567	.1751	.1016	.1038	.0375	-.0144	-.0366	-.1252
110.000	.0000	-.0739	-.0676	-.0755	-.0273	.0659	.1124	.1436	.1338	.0944	.0622	.0180	-.0185	-.0536	.0000
120.000						.0484								-.0556	
130.000						.0397								-.0026	
140.000						.0485								.0319	
150.000						.0515								.0564	
160.000						.0787								.0728	
170.000						.0936								.0873	
180.000	.0209	.0364	.0606	.0722	.1008	.0952	.1120	.1406	.1446	.1400	.1297	.1177	.1009	.1034	.1327

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0062		
70.000							-.0276	-.0833	.0000
80.000							-.0352	-.1472	-.1617
90.000	-.1485	-.1424	-.1886	-.1575	.0000	.0000	-.0507	-.1752	-.1824
100.000	-.1628	-.1759	-.2026	.0243	.0587	-.0235			
110.000	-.1389	-.1500	-.0085	.1826	.1504	.0217			
120.000						.1385			
130.000						.2576			
140.000						.1057			
150.000						.2030			
160.000						.2504			
170.000						.2478			
180.000	-.1367	.2055	.2781	.3172	.3500	.4301			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (7) = 1.151 ALPHA (9) = 8.670

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2225	.1860	.0453												
70.000	.2366	.2292	.1151												
80.000	.2109	.2382	.1701												
90.000			.2135	-.0545	-.2842	-.1996	-.0700	-.0411	-.0079	-.0507	-.0588	-.0765	-.0666	-.0697	-.1170
100.000						-.1953	-.1264	-.0995	-.0588	-.0676	-.0859	-.1431	-.1189	-.1646	-.1294
110.000						-.3337	-.2200	-.1728	-.1545	-.1604	-.1742	-.1818	-.1869	-.2239	-.1717
120.000						-.3247								.0000	
130.000						-.5197								-.1741	
140.000						-.6908								-.1365	
150.000						-.6510								-.1027	
160.000						-.6094								-.0757	
170.000						-.6023								-.0654	
180.000						-.5116	-.4611	-.4027	-.3322	-.2864	-.2205	-.1531	-.0879	-.0365	.0212

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0745	-.1032	-.0818	-.0539	-.0193	.0654	.1931	.2190	.2017	.1368	.0995	.0334	-.0379	-.0775	-.1302
100.000	-.1253	-.1360	-.0943	-.0709	-.0395	.0412	.1552	.1833	.1839	.0944	.0854	.0186	-.0379	-.0581	-.1517
110.000	.0000	-.1322	-.1008	-.1020	-.0820	.0468	.1401	.1491	.1258	.0865	.0314	-.0105	-.0414	-.0818	.0000
120.000						.0348								-.0919	
130.000						.0491								-.0243	
140.000						.0801								.0151	
150.000						.0997								.0237	
160.000						.1183								.0320	
170.000						.1291								.0598	
180.000	.0430	.0534	.0668	.0876	.0947	.1258	.1389	.1509	.1462	.1338	.1228	.1040	.0889	.0779	.1057

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0227		
70.000							-.0508	-.1055	.0000
80.000							-.0785	-.1692	-.1940
90.000	-.1583	-.1655	-.2042	-.2337	.0000	.0000	-.1059	-.1993	-.2151
100.000	-.1819	-.1956	-.2282	-.0292	.0270	-.0455			
110.000	-.1583	-.1771	-.0613	.1410	.1264	.0139			
120.000						.1400			
130.000						.2322			
140.000						.0663			
150.000						.1901			
160.000						.2388			
170.000						.1651			
180.000	-.1566	.1629	.2531	.3028	.3500	.5063			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.251 ALPHA (1) = -8.450

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1370	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4621	.4041	.1877												
70.000	.5257	.4353	.2609												
80.000	.5428	.4268	.2860												
90.000			.2777	.0008	-.2162	-.2442	-.2558	-.2390	-.2132	-.2449	-.1978	-.1584	-.1002	-.0792	-.0453
100.000						-.2453	-.2617	-.2722	-.2615	-.2396	-.1882	-.1580	-.1029	-.1074	-.0526
110.000						-.3278	-.3045	-.2982	-.2899	-.2528	-.1937	-.1314	-.0978	-.1035	-.0633
120.000						-.1803								.0000	
130.000						-.3069								-.0835	
140.000						-.3370								-.0937	
150.000						-.2887								-.0955	
160.000						-.2696								-.0963	
170.000						-.2453								-.1133	
180.000						-.1627	-.1394	-.1207	-.0974	-.0935	-.0927	-.1080	-.1102	-.1151	-.1196

X/L	.4500	.4680	.4860	.5050	5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0053	-.0012	.0124	-.0008	-.0069	-.0259	-.0142	.0025	.0489	.0938	.0977	.0795	.0697	.0576	.0367
100.000	-.0265	-.0243	-.0094	-.0114	-.0137	-.0331	-.0400	-.0246	.0280	.0604	.0874	.0716	.0681	.0679	.0386
110.000	.0000	-.0228	-.0122	-.0134	-.0226	-.0377	-.0412	-.0290	-.0001	.0414	.0776	.0663	.0665	.0685	.0000
120.000						-.0314								.0393	
130.000						-.0586								.0337	
140.000						-.0669								.0183	
150.000						-.0586								.0067	
160.000						-.0765								-.0049	
170.000						-.0909								-.0268	
180.000	-.1304	-.1370	-.1233	-.1200	-.1188	-.1117	-.1216	-.1190	-.1172	-.1003	-.0785	-.0761	-.0572	-.0334	.0448

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1976		
70.000							.1720	.0987	.0000
80.000							.1489	.0562	.0980
90.000	.0461	-.0224	.1084	.1399	.0000	.0000	.1186	.0344	.1166
100.000	.0178	.0084	.0830	.2070	.1878	.1122			
110.000	.0349	.0501	.2150	.2727	.2017	.1132			
120.000						.1763			
130.000						.4137			
140.000						.4041			
150.000						.4599			
160.000						.5479			
170.000						.6328			
180.000	.0379	.1823	.4134	.4878	.5263	.4996			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.250 ALPHA (2) = -6.340

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4260	.3823	.1855												
70.000	.4663	.4175	.2534												
80.000	.4992	.4064	.2799												
90.000			.2615	.0009	-.2209	-.2486	-.2618	-.2410	-.2195	-.2482	-.2193	-.1845	-.1323	-.1091	-.0783
100.000						-.2515	-.2661	-.2762	-.2634	-.2503	-.2086	-.1877	-.1307	-.1384	-.0798
110.000						-.3225	-.3037	-.3033	-.3019	-.2739	-.2148	-.1567	-.1219	-.1268	-.0836
120.000						-.1966								.0000	
130.000						-.3357								-.1077	
140.000						-.3848								-.1205	
150.000						-.3312								-.1240	
160.000						-.3152								-.1259	
170.000						-.2926								-.1451	
180.000						-.2140	-.1815	-.1645	-.1386	-.1333	-.1268	-.1429	-.1427	-.1474	-.1506

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0374	-.0279	-.0101	-.0219	-.0293	-.0480	-.0407	-.0255	.0175	.0535	.0646	.0431	.0348	.0259	.0040
100.000	-.0549	-.0480	-.0313	-.0334	-.0348	-.0553	-.0619	-.0497	-.0049	.0229	.0599	.0389	.0324	.0367	.0640
110.000	.0000	-.0443	-.0325	-.0352	-.0419	-.0580	-.0587	-.0543	-.0329	.0055	.0387	.0419	.0336	.0346	.0000
120.000						-.0531								.0035	
130.000						-.0831								.0033	
140.000						-.0927								-.0127	
150.000						-.0845								-.0247	
160.000						-.1015								-.0337	
170.000						-.1155								-.0600	
180.000	-.1603	-.1647	-.1515	-.1440	-.1403	-.1364	-.1454	-.1378	-.1320	-.1169	-.0992	-.0978	-.0794	-.0632	-.0165

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1659		
70.000							.1303	.0702	.0000
80.000							.1126	.0202	.0485
90.000	.0137	-.0316	.0268	.0734	.0000	.0000	.0809	-.0026	.0641
100.000	-.0172	-.0191	.0078	.1611	.1491	.0798			
110.000	-.0045	.0106	.1643	.2397	.1774	.0909			
120.000						.1811			
130.000						.3995			
140.000						.3567			
150.000						.4136			
160.000						.4893			
170.000						.5743			
180.000	-.0028	.2037	.3745	.4373	.4756	.4607			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.250 ALPHA (3) = -4.188

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3804	.3499	.1771												
70.000	.4338	.3841	.2398												
80.000	.4494	.3732	.2691												
90.000			.2767	-.0022	-.2242	-.2536	-.2622	-.2423	-.2229	-.2476	-.2294	-.2079	-.1561	-.1370	-.1121
100.000						-.2544	-.2689	-.2774	-.2618	-.2561	-.2278	-.2124	-.1586	-.1661	-.1056
110.000						-.3205	-.3023	-.3087	-.3081	-.2901	-.2355	-.1814	-.1455	-.1541	-.1046
120.000						-.2173								.0000	
130.000						-.3596								-.1307	
140.000						-.4298								-.1408	
150.000						-.3740								-.1492	
160.000						-.3596								-.1531	
170.000						-.3452								-.1724	
180.000						-.2619	-.2292	-.2114	-.1802	-.1713	-.1638	-.1763	-.1728	-.1789	-.1752

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0690	-.0582	-.0369	-.0460	-.0503	-.0692	-.0615	-.0471	-.0086	.0257	.0398	.0146	.0152	.0043	-.0216
100.000	-.0802	-.0764	-.0554	-.0562	-.0552	-.0774	-.0827	-.0713	-.0303	-.0080	.0291	.0061	.0030	.0198	-.0204
110.000	.0000	-.0682	-.0570	-.0568	-.0648	-.0817	-.0801	-.0747	-.0569	-.0205	.0063	.0049	.0008	.0166	.0000
120.000						-.0792								-.0227	
130.000						-.1081								-.0283	
140.000						-.1185								-.0413	
150.000						-.1099								-.0519	
160.000						-.1259								-.0595	
170.000						-.1385								-.0823	
180.000	-.1831	-.1851	-.1709	-.1654	-.1609	-.1574	-.1626	-.1391	-.1375	-.1291	-.1115	-.1089	-.0975	-.0847	-.0032

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1192		
70.000							.0909	.0344	.0000
80.000							.0719	-.0162	-.0094
90.000	-.0026	-.0582	-.0295	.0106	.0000	.0000	.0436	-.0376	.0012
100.000	-.0439	-.0580	-.0474	.1186	.1250	.0550			
110.000	-.0310	-.0411	.1046	.2222	.1751	.0742			
120.000						.1804			
130.000						.3754			
140.000						.3081			
150.000						.3613			
160.000						.4340			
170.000						.5157			
180.000	-.0301	.1529	.3368	.3882	.4263	.3931			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REF8019)

MACH (8) = 1.249 ALPHA (4) = -1.999

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3391	.3047	.1374												
70.000	.3945	.3449	.2024												
80.000	.3963	.3603	.2445												
90.000			.2639	-.0130	-.2313	-.2605	-.2647	-.2447	-.2232	-.2404	-.2251	-.2158	-.1645	-.1444	-.1332
100.000						-.2597	-.2750	-.2791	-.2562	-.2520	-.2334	-.2287	-.1735	-.1804	-.1214
110.000						-.3181	-.3100	-.3131	-.3117	-.3032	-.2530	-.2003	-.1686	-.1755	-.1151
120.000						-.2364								.0000	
130.000						-.3841								-.1541	
140.000						-.4679								-.1661	
150.000						-.4149								-.1749	
160.000						-.3973								-.1886	
170.000						-.3855								-.2032	
180.000						-.3139	-.2710	-.2556	-.2255	-.2127	-.2018	-.2111	-.2075	-.2031	-.2024

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0939	-.0872	-.0650	-.0717	-.0760	-.0889	-.0764	-.0546	-.0178	.0179	.0294	-.0074	-.0070	-.0108	-.0471
100.000	-.1037	-.1039	-.0862	-.0831	-.0805	-.0988	-.1021	-.0818	-.0382	-.0154	.0220	-.0042	-.0130	.0030	-.0455
110.000	.0000	-.0933	-.0848	-.0846	-.0931	-.1086	-.1035	-.0927	-.0702	-.0308	-.0034	-.0106	-.0208	-.0038	.0000
120.000						-.1119								-.0420	
130.000						-.1387								-.0432	
140.000						-.1461								-.0552	
150.000						-.1367								-.0570	
160.000						-.1505								-.0652	
170.000						-.1567								-.0774	
180.000	-.2073	-.2063	-.1878	-.1782	-.1705	-.1663	-.1623	-.1381	-.1417	-.1317	-.1151	-.1079	-.0915	-.0762	.0077

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0716		
70.000							.0439	-.0061	.0000
80.000							.0304	-.0590	-.0581
90.000	-.0592	-.0755	-.0793	-.0370	.0000	.0000	.0077	-.0784	-.0615
100.000	-.0791	-.0905	-.0879	.0822	.0988	.0219			
110.000	-.0860	-.0778	.0501	.2000	.1542	.0613			
120.000						.1777			
130.000						.3517			
140.000						.2490			
150.000						.3108			
160.000						.3897			
170.000						.4708			
180.000	-.0847	.1794	.3117	.3500	.3767	.3313			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

[illegible] (6) = 1.250 ALFHA (5) = .073

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3161	.2793	.1107												
70.000	.3590	.3179	.1819												
80.000	.3483	.3167	.2280												
90.000			.2599	-.0223	-.2686	-.2915	-.3058	-.3015	-.2181	-.2108	-.1950	-.1837	-.1483	-.1432	-.1520
100.000						-.2921	-.3066	-.3213	-.3082	-.2325	-.2132	-.2136	-.1607	-.1754	-.1414
110.000						-.3413	-.3313	-.3438	-.3503	-.3274	-.2545	-.2033	-.1674	-.1774	-.1314
120.000						-.2658								.0000	
130.000						-.4168								-.1687	
140.000						-.5117								-.1837	
150.000						-.4641								-.1961	
160.000						-.4360								-.2177	
170.000						-.4271								-.2395	
180.000						-.3607	-.3138	-.2936	-.2665	-.2533	-.2460	-.2495	-.2487	-.2493	-.2308

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1135	-.1092	-.0854	-.0884	-.0876	-.0931	-.0768	-.0598	-.0258	.0066	.0183	-.0292	-.0456	-.0382	-.0704
100.000	-.1233	-.1257	-.1045	-.0998	-.0961	-.1059	-.0989	-.0842	-.0472	-.0276	.0058	-.0310	-.0570	-.0214	-.0733
110.000	.0000	-.1100	-.1027	-.1049	-.1108	-.1212	-.1083	-.0949	-.0812	-.0460	-.0222	-.0376	-.0518	-.0328	.0000
120.000						-.1405								-.0742	
130.000						-.1689								-.0612	
140.000						-.1695								-.0594	
150.000						-.1601								-.0572	
160.000						-.1635								-.0572	
170.000						-.1647								-.0586	
180.000	-.2267	-.2193	-.2012	-.1912	-.1818	-.1601	-.1503	-.1215	-.1279	-.1175	-.0958	-.0864	-.0682	-.0466	.0472

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0296		
70.000							.0094	-.0345	.0000
80.000							.0000	-.0880	-.1007
90.000	-.0981	-.0874	-.1112	-.1161	.0000	.0000	-.0262	-.1081	-.1106
100.000	-.1220	-.1247	-.1266	.0331	.0713	-.0023			
110.000	-.1013	-.1116	-.0198	.1814	.1528	.0458			
120.000						.1839			
130.000						.3515			
140.000						.1938			
150.000						.2549			
160.000						.3561			
170.000						.4191			
180.000	-.0991	.1652	.2676	.2995	.3276	.3103			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.250 ALPHA (6) = 2.330

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2906	.2441	.0778												
70.000	.3221	.2831	.1540												
80.000	.2870	.3086	.2033												
90.000			.2506	-.0235	-.2804	-.3223	-.3373	-.3361	-.3106	-.2472	-.1761	-.1569	-.1388	-.1390	-.1451
100.000						-.3202	-.3322	-.3482	-.3421	-.3276	-.2318	-.2033	-.1592	-.1769	-.1366
110.000						-.3415	-.3319	-.3670	-.3749	-.3855	-.3452	-.2210	-.1695	-.1803	-.1396
120.000						-.2820								.0000	
130.000						-.4400								-.1993	
140.000						-.5507								-.2292	
150.000						-.5044								-.2538	
160.000						-.4694								-.2683	
170.000						-.4629								-.2831	
180.000						-.4026	-.3513	-.3286	-.2982	-.2883	-.2816	-.2913	-.2864	-.2894	-.2719

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1056	-.1110	-.0874	-.0951	-.0892	-.0988	-.0835	-.0665	-.0401	-.0060	.0016	-.0535	-.0787	-.0687	-.0924
100.000	-.1217	-.1208	-.1059	-.1065	-.1024	-.1173	-.1122	-.1034	-.0575	-.0501	-.0072	-.0549	-.0829	-.0561	-.1043
110.000	.0000	-.1132	-.1073	-.1159	-.1218	-.1314	-.1256	-.1166	-.1030	-.0697	-.0469	-.0841	-.0867	-.0725	.0000
120.000						-.1713								-.0997	
130.000						-.1977								-.0785	
140.000						-.1917								-.0675	
150.000						-.1733								-.0513	
160.000						-.1662								-.0455	
170.000						-.1462								-.0286	
180.000	-.2576	-.2409	-.2143	-.1937	-.1589	-.1266	-.1190	-.1130	-.0972	-.0893	-.0709	-.0601	-.0352	-.0148	.0765

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0009		
70.000							-.0162	-.0636	.0000
80.000							-.0324	-.1137	-.1321
90.000	-.1220	-.1002	-.1421	-.1918	.0000	.0000	-.0653	-.1302	-.1490
100.000	-.1470	-.1550	-.1647	-.0155	.0445	-.0234			
110.000	-.1239	-.1544	-.1051	.1587	.1338	.0359			
120.000						.1780			
130.000						.3067			
140.000						.1513			
150.000						.2072			
160.000						.3042			
170.000						.3748			
180.000	-.1210	.0946	.2167	.2433	.2805	.2901			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (6) = 1.251 ALPHA (7) = 4.398

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2898	.2038	.0445												
70.000	.2914	.2384	.1201												
80.000	.2469	.2558	.1796												
90.000			.2380	-.0216	-.2660	-.3301	-.3426	-.3390	-.3192	-.3007	-.1975	-.1558	-.1297	-.1303	-.1438
100.000						-.3259	-.3396	-.3530	-.3414	-.3299	-.2754	-.2143	-.1644	-.1858	-.1471
110.000						-.3445	-.3552	-.3744	-.3789	-.3924	-.3675	-.2689	-.1978	-.2039	-.1611
120.000						-.2896								.0000	
130.000						-.4574								-.2459	
140.000						-.5837								-.2621	
150.000						-.5400								-.2799	
160.000						-.4991								-.2974	
170.000						-.4945								-.3086	
180.000						-.4386	-.3846	-.3588	-.3352	-.3214	-.3141	-.3165	-.3133	-.3114	-.3006

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1126	-.1165	-.0994	-.1036	-.0992	-.1110	-.0953	-.0835	-.0525	-.0261	-.0238	-.0763	-.0931	-.0959	-.1177
100.000	-.1377	-.1427	-.1197	-.1146	-.1122	-.1269	-.1247	-.1181	-.0735	-.0835	-.0325	-.0775	-.0979	-.0843	-.1264
110.000	.0000	-.1393	-.1232	-.1326	-.1381	-.1529	-.1455	-.1377	-.1217	-.1041	-.0757	-.0945	-.1087	-.0991	.0000
120.000						-.2034								-.1153	
130.000						-.2191								-.0855	
140.000						-.2099								-.0649	
150.000						-.1743								-.0431	
160.000						-.1465								-.0234	
170.000						-.1223								-.0024	
180.000	-.2818	-.2580	-.2093	-.1678	-.1295	-.0997	-.0907	-.0895	-.0763	-.0669	-.0527	-.0405	-.0180	.0146	.0948

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0270		
70.000							-.0560	-.0884	.0000
80.000							-.0812	-.1317	-.1471
90.000	-.1435	-.1393	-.1742	-.2326	.0000	.0000	-.1118	-.1605	-.1639
100.000	-.1704	-.1647	-.1696	-.0580	.0212	-.0403			
110.000	-.1481	-.1731	-.1443	.1266	.1177	.0211			
120.000						.1740			
130.000						.2829			
140.000						.1085			
150.000						.1761			
160.000						.2568			
170.000						.2963			
180.000	-.1439	.1153	.1680	.2087	.2458	.2809			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.251 ALPHA (8) = 6.489

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2350	.1687	-.0055												
70.000	.2445	.1915	.0708												
80.000	.1927	.1671	.1539												
90.000			.2194	-.0241	-.2902	-.3279	-.3367	-.3296	-.3025	-.2563	-.1595	-.1291	-.1098	-.1131	-.1469
100.000						-.3267	-.3345	-.3424	-.3217	-.2995	-.2265	-.1890	-.1516	-.1846	-.1561
110.000						-.3408	-.3507	-.3708	-.3714	-.3748	-.3325	-.2426	-.2058	-.2225	-.1909
120.000						-.3005								.0000	
130.000						-.4712								-.2636	
140.000						-.6156								-.2626	
150.000						-.5778								-.2799	
160.000						-.5283								-.3044	
170.000						-.5229								-.3215	
180.000						-.4743	-.4141	-.3918	-.3588	-.3460	-.3373	-.3400	-.3357	-.3327	-.3046

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1192	-.1294	-.1204	-.1294	-.1267	-.1327	-.1212	-.1068	-.0758	-.0514	-.0434	-.0816	-.0926	-.1056	-.1376
100.000	-.1532	-.1638	-.1522	-.1483	-.1369	-.1555	-.1514	-.1438	-.1046	-.1110	-.0570	-.0892	-.0974	-.0960	-.1488
110.000	.0000	-.1713	-.1648	-.1669	-.1693	-.1852	-.1774	-.1714	-.1552	-.1376	-.1104	-.1146	-.1186	-.1188	.0000
120.000						-.2488								-.1362	
130.000						-.2486								-.0850	
140.000						-.2128								-.0552	
150.000						-.1578								-.0300	
160.000						-.1180								-.0102	
170.000						-.0978								.0048	
180.000	-.2777	-.2300	-.1612	-.1210	-.1031	-.0802	-.0760	-.0798	-.0658	-.0586	-.0430	-.0290	-.0022	.0218	.0730

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0520		
70.000							-.0848	-.0875	.0000
80.000							-.1203	-.1280	-.1671
90.000	-.1669	-.1692	-.2011	-.2743	.0000	.0000	-.1271	-.1803	-.1731
100.000	-.1924	-.2178	-.2178	-.0960	-.0115	-.0570			
110.000	-.1704	-.2098	-.1654	.0959	.0946	.0144			
120.000						.1752			
130.000						.2670			
140.000						.0746			
150.000						.1640			
160.000						.1985			
170.000						.2058			
180.000	-.1673	.0814	.1777	.2133	.2474	.3126			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (8) = 1.250 ALPHA (9) = 8.661

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1625	.1287	-.0495												
70.000	.1611	.1396	.0040												
80.000	.1380	.1323	.0796												
90.000			.1770	-.0209	-.2863	-.3213	-.3214	-.3076	-.2619	-.1404	-.0957	-.1013	-.0948	-.1003	-.1425
100.000						-.3234	-.3254	-.3254	-.2983	-.2279	-.1408	-.1552	-.1384	-.1757	-.1580
110.000						-.3385	-.3394	-.3586	-.3532	-.3493	-.2434	-.2006	-.2034	-.2385	-.2073
120.000						-.3060								.0000	
130.000						-.4796								-.3059	
140.000						-.6296								-.2699	
150.000						-.5989								-.2715	
160.000						-.5539								-.2935	
170.000						-.5531								-.3240	
180.000						-.5163	-.4483	-.4180	-.3902	-.3728	-.3635	-.3630	-.3532	-.3434	-.2890

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1236	-.1437	-.1427	-.1580	-.1571	-.1730	-.1624	-.1444	-.1096	-.0670	-.0299	-.0912	-.1078	-.1310	-.1584
100.000	-.1698	-.1926	-.1850	-.1853	-.1767	-.1971	-.1949	-.1831	-.1306	-.1274	-.0557	-.1030	-.1132	-.1162	-.1671
110.000	.0000	-.2182	-.2158	-.2250	-.2233	-.2268	-.2193	-.2137	-.1951	-.1714	-.1208	-.1540	-.1312	-.1430	.0000
120.000						-.2965								-.1446	
130.000						-.2627								-.0804	
140.000						-.1961								-.0555	
150.000						-.1366								-.0397	
160.000						-.1032								-.0163	
170.000						-.0814								.0080	
180.000	-.2154	-.1453	-.1105	-.0926	-.0908	-.0730	-.0714	-.0774	-.0628	-.0500	-.0313	-.0075	.0039	.0179	.0489

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0823		
70.000							-.1216	-.1028	.0000
80.000							-.1502	-.1631	-.1885
90.000	-.1784	-.1933	-.2238	-.2883	.0000	.0000	-.1413	-.2164	-.2004
100.000	-.2050	-.2420	-.2466	-.1017	-.0534	-.0672			
110.000	-.1923	-.2358	-.0937	.0570	.0489	.0028			
120.000						.1787			
130.000						.2565			
140.000						.0672			
150.000						.1841			
160.000						.2120			
170.000						.1146			
180.000	-.1885	.0308	.1883	.2313	.2794	.3892			

AMES 60-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.399 ALPHA (1) = -0.636

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0470	.1260	.1840	.2050	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4780	.4322	.2494												
75.000	.5385	.4717	.3158												
85.000	.5519	.4639	.3478												
90.000			.5468	.1023	-.1059	-.1361	-.1501	-.1486	-.1348	-.1591	-.1329	-.1010	-.0587	-.0474	-.0439
100.000						-.1356	-.1540	-.1657	-.1688	-.1635	-.1289	-.1100	-.0598	-.0666	-.0354
110.000						-.2161	-.1958	-.1928	-.1918	-.1775	-.1351	-.0897	-.0535	-.0593	-.0298
120.000						-.0864								.0000	
130.000						-.2072								-.0397	
140.000						-.2402								-.0397	
150.000						-.1921								-.0412	
160.000						-.1819								-.0452	
170.000						-.1682								-.0529	
180.000						-.1106	-.0722	-.0626	-.0503	-.0581	-.0301	-.0476	-.0542	-.0580	-.0582

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5610	.5800	5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0035	.0143	.0452	.0401	.0396	.0250	.0307	.0323	.0491	.0752	.1009	.0902	.0665	.0703	.0981
100.000	-.0198	-.0104	.0143	.0271	.0324	.0190	.0120	.0154	.0349	.0404	.0834	.0871	.0741	.0724	.0661
110.000	.0000	-.0112	.0054	.0169	.0214	.0124	.0145	.0164	.0215	.0359	.0574	.0720	.0777	.0694	.0000
120.000						.0103								.0448	
130.000						-.0171								.0294	
140.000						-.0251								.0048	
150.000						-.0174								-.0083	
160.000						-.0341								-.0190	
170.000						-.0438								-.0303	
180.000	-.0883	-.0855	-.0606	-.0596	-.0606	-.0586	-.0696	-.0580	-.0729	-.0668	-.0519	-.0550	-.0377	-.0326	-.0274

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9.00	.9400
PHI									
80.000							.1933		
75.000							.1647	.1140	.0000
85.000							.1405	.0667	.0599
90.000	.0280	-.0146	.0859	.1146	.0000	.0000	.1063	.0440	.0591
100.000	.0281	.0305	.0865	.1940	.1940	.1194			
110.000	.0478	.0528	.1706	.2747	.2313	.1527			
120.000						.2423			
130.000						.4594			
140.000						.4128			
150.000						.4627			
160.000						.5735			
170.000						.6394			
180.000	.0963	.0592	.3414	.4228	.4677	.4468			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.401 ALPHA (2) = -2.378

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.4422	.3960	.2160												
70.000	.4932	.4371	.2882												
80.000	.5042	.4299	.3296												
90.000			.3438	.0732	-.1366	-.1368	-.1533	-.1493	-.1367	-.1603	-.1393	-.1222	-.0859	-.0761	-.0805
100.000						-.1396	-.1569	-.1695	-.1703	-.1684	-.1441	-.1317	-.0853	-.0960	-.0668
110.000						-.2368	-.1963	-.1965	-.2003	-.1946	-.1526	-.1099	-.0797	-.0850	-.0563
120.000						-.1241								.0000	
130.000						-.2419								-.0626	
140.000						-.2855								-.0654	
150.000						-.2398								-.0718	
160.000						-.2254								-.0775	
170.000						-.2153								-.0882	
180.000						-.1649	-.1154	-.1078	-.0951	-.0850	-.0741	-.0853	-.0900	-.0955	-.0929

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0412	-.0264	.0063	.0084	.0118	.0037	.0076	.0116	.0263	.0503	.0696	.0564	.0279	.0233	.0314
100.000	-.0523	-.0463	-.0226	-.0050	.0035	-.0033	-.0071	-.0060	.0120	.0148	.0539	.0526	.0360	.0273	.0285
110.000	.0000	-.0391	-.0251	-.0103	-.0065	-.0125	-.0066	-.0058	-.0024	.0101	.0303	.0392	.0428	.0303	.0000
120.000						-.0185								.0144	
130.000						-.0484								.0008	
140.000						-.0591								-.0186	
150.000						-.0524								-.0341	
160.000						-.0683								-.0446	
170.000						-.0788								-.0537	
180.000	-.0996	-.1009	-.0958	-.0924	-.0921	-.0895	-.0967	-.0889	-.1023	-.1007	-.0814	-.0744	-.0629	-.0564	.0019

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1457		
70.000							.1175	.0756	.0000
80.000							.0941	.0298	.0073
90.000	-.0082	-.0437	.0146	.0553	.0000	.0000	.0666	.0064	.0016
100.000	-.0097	-.0151	.0105	.1474	.1529	.0913			
110.000	.0096	-.0014	.1078	.2396	.2124	.1143			
120.000						.2781			
130.000						.4337			
140.000						.3458			
150.000						.3895			
160.000						.4968			
170.000						.5662			
180.000	.0186	.0127	.2934	.3694	.4134	.3945			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.402 ALPHA (3) = -4.297

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4013	.3592	.1974												
70.000	.4473	.3979	.2674												
80.000	.4428	.4192	.3131												
90.000			.3369	.0719	-.1515	-.1899	-.1732	-.1614	-.1393	-.1617	-.1433	-.1333	-.1021	-.0916	-.0985
100.000						-.1920	-.2051	-.1830	-.1800	-.1689	-.1548	-.1448	-.1034	-.1161	-.0857
110.000						-.2367	-.2365	-.2354	-.2122	-.2128	-.1713	-.1296	-.0977	-.1060	-.0734
120.000						-.1403								.0000	
130.000						-.2633								-.0880	
140.000						-.3193								-.0968	
150.000						-.2750								-.0994	
160.000						-.2584								-.1122	
170.000						-.2520								-.1232	
180.000						-.2108	-.1536	-.1450	-.1321	-.1190	-.1099	-.1232	-.1277	-.1324	-.1259

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0653	-.0554	-.0248	-.0216	-.0151	-.0218	-.0128	-.0050	.0105	.0332	.0508	.0364	.0062	-.0107	-.0083
100.000	-.0717	-.0696	-.0482	-.0321	-.0248	-.0274	-.0317	-.0246	-.0027	-.0008	.0356	.0319	.0134	-.0012	-.0094
110.000	.0000	.0593	-.0430	-.0391	-.0361	-.0387	-.0328	-.0262	-.0220	-.0074	.0113	.0147	.0153	-.0006	.0000
120.000						-.0447								-.0216	
130.000						-.0735								-.0286	
140.000						-.0848								-.0431	
150.000						-.0787								-.0571	
160.000						-.0930								-.0613	
170.000						-.1031								-.0750	
180.000	-.1319	-.1319	-.1225	-.1206	-.1200	-.1182	-.1262	-.0863	-.1237	-.1150	-.0974	-.0947	-.0830	-.0758	-.0179

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0914		
70.000							.0722	.0383	.0000
80.000							.0528	-.0096	-.0316
90.000	-.0393	-.0658	-.0262	-.0027	.0000	.0000	.0282	-.0293	-.0410
100.000	-.0422	-.0835	-.0335	.0988	.1264	.0620			
110.000	-.0264	-.0456	.0257	.2076	.1956	.1000			
120.000						.2338			
130.000						.4062			
140.000						.2899			
150.000						.3261			
160.000						.4299			
170.000						.4980			
180.000	-.0201	-.0168	.2644	.3265	.3674	.3373			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.401 ALPHA (4) = -2.131

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3685	.3153	.1682												
70.000	.4080	.3478	.2455												
80.000	.3863	.3501	.2936												
90.000			.3297	.0680	-.1439	-.1825	-.2009	-.2054	-.2022	-.2031	-.1773	-.1389	-.1109	-.1029	-.1081
100.000						-.1831	-.1984	-.2175	-.2237	-.2212	-.2065	-.1794	-.1128	-.1239	-.0961
110.000						-.2238	-.2280	-.2356	-.2444	-.2688	-.2326	-.1826	-.1145	-.1190	-.0856
120.000						-.1490								.0000	
130.000						-.2826								-.1376	
140.000						-.3538								-.1422	
150.000						-.3122								-.1434	
160.000						-.2920								-.1509	
170.000						-.2858								-.1571	
180.000						-.2504	-.1956	-.1847	-.1726	-.1554	-.1455	-.1552	-.1565	-.1604	-.1610

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0777	-.0761	-.0492	-.0498	-.0416	-.0432	-.0344	-.0302	-.0153	.0114	.0262	.0150	-.0142	-.0381	-.0288
100.000	-.0852	-.0884	-.0680	-.0571	-.0477	-.0534	-.0508	-.0444	-.0270	-.0256	.0092	.0086	-.0115	-.0270	-.0338
110.000	.0000	-.0734	-.0642	-.0569	-.0581	-.0646	-.0552	-.0491	-.0407	-.0321	-.0134	-.0130	-.0115	-.0285	.0000
120.000						-.0727								-.0583	
130.000						-.0946								-.0675	
140.000						-.1054								-.0820	
150.000						-.1016								-.0808	
160.000						-.1158								-.0837	
170.000						-.1263								-.0913	
180.000	-.1721	-.1672	-.1563	-.1475	-.1456	-.1417	-.1501	-.1224	-.1473	-.1379	-.1146	-.1070	-.0951	-.0862	-.0253

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0458		
70.000							.0352	.0037	.0000
80.000							.0221	-.0427	-.0641
90.000	-.0591	-.0787	-.0517	-.0494	.0000	.0000	-.0004	-.0585	-.0775
100.000	-.0649	-.0904	-.0658	.0603	.1050	.0458			
110.000	-.0514	-.0736	-.0320	.1766	.1755	.0916			
120.000						.2343			
130.000						.3763			
140.000						.2302			
150.000						.2683			
160.000						.3651			
170.000						.4340			
180.000	-.0479	-.0024	.2419	.2904	.3127	.2746			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.402 ALPHA (5) = -.033

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3354	.2848	.1613												
70.000	.3703	.3056	.2279												
80.000	.3412	.3152	.2875												
90.000			.3327	.0894	-.1494	-.1933	-.2115	-.2147	-.2162	-.2475	-.2392	-.2141	-.1510	-.1188	-.1174
100.000						-.1940	-.2045	-.2248	-.2322	-.2433	-.2527	-.2654	-.1953	-.1748	-.1054
110.000						-.2189	-.2277	-.2422	-.2544	-.2812	-.2780	-.2524	-.2108	-.1994	-.1019
120.000						-.1562								.0000	
130.000						-.2962								-.1872	
140.000						-.3855								-.1880	
150.000						-.3472								-.1784	
160.000						-.3199								-.1786	
170.000						-.3167								-.1873	
180.000						-.2879	-.2273	-.2167	-.2000	-.1856	-.1787	-.1852	-.1859	-.1998	-.1896

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0815	-.0785	-.0575	-.0600	-.0521	-.0575	-.0475	-.0444	-.0335	-.0024	.0117	.0029	-.0288	-.0543	-.0456
100.000	-.0875	-.0896	-.0744	-.0671	-.0624	-.0675	-.0675	-.0627	-.0436	-.0377	-.0060	-.0060	-.0230	-.0427	-.0538
110.000	.0000	-.0774	-.0705	-.0720	-.0714	-.0755	-.0717	-.0679	-.0644	-.0519	-.0311	-.0257	-.0242	-.0492	.0000
120.000						-.0952								-.0877	
130.000						-.1162								-.0919	
140.000						-.1238								-.0982	
150.000						-.1225								-.0994	
160.000						-.1335								-.0975	
170.000						-.1452								-.0971	
180.000	-.1974	-.1989	-.1884	-.1749	-.1616	-.1595	-.1677	-.1290	-.1679	-.1530	-.1263	-.1166	-.0988	-.0910	-.0274

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0164		
70.000							.0090	-.0187	.0000
80.000							-.0073	-.0604	-.0944
90.000	-.0695	-.0568	-.0672	-.1205	.0000	.0000	-.0233	-.0824	-.1085
100.000	-.0802	-.0988	-.0890	-.0008	.0811	.0378			
110.000	-.0648	-.0923	-.0840	.1531	.1744	.1014			
120.000						.2495			
130.000						.3537			
140.000						.1805			
150.000						.2229			
160.000						.3142			
170.000						.3829			
180.000	-.0695	.0428	.2174	.2467	.2682	.2418			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.400 ALPHA (8) = 2.229

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1645	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3206	.2831	.1244												
70.000	.3412	.2989	.1925												
80.000	.3059	.3006	.2646												
90.000			.3240	.0918	-.1566	-.2012	-.2225	-.2295	-.2316	-.2572	-.2512	-.2581	-.2415	-.2096	-.1334
100.000						-.2063	-.2137	-.2368	-.2436	-.2581	-.2653	-.2881	-.2619	-.2722	-.1454
110.000						-.2157	-.2301	-.2495	-.2659	-.2941	-.2968	-.2859	-.2672	-.2717	-.1870
120.000						-.1643								.0000	
130.000						-.3126								-.2259	
140.000						-.4200								-.2181	
150.000						-.3823								-.2089	
160.000						-.3492								-.2110	
170.000						-.3465								-.2113	
180.000						-.3175	-.2613	-.2483	-.2287	-.2129	-.2067	-.2130	-.2119	-.2164	-.2166

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0948	-.0863	-.0648	-.0635	-.0564	-.0607	-.0488	-.0469	-.0301	-.0016	.0131	-.0015	-.0432	-.0650	-.0628
100.000	-.1049	-.0963	-.0771	-.0715	-.0633	-.0725	-.0726	-.0677	-.0465	-.0400	-.0114	-.0127	-.0329	-.0562	-.0731
110.000	.0000	-.0938	-.0820	-.0785	-.0798	-.0848	-.0799	-.0759	-.0717	-.0606	-.0411	-.0400	-.0387	-.0700	.0000
120.000						-.1185								-.1245	
130.000						-.1347								-.1161	
140.000						-.1450								-.1154	
150.000						-.1419								-.1037	
160.000						-.1570								-.0848	
170.000						-.1681								-.0772	
180.000	-.2218	-.2236	-.2133	-.2045	-.1918	-.1833	-.1860	-.1446	-.1776	-.1471	-.1146	-.0980	-.0814	-.0696	.0109

X/L	.7290	.7470	.7670	.7850	.8030	.82	.8620	.9000	.9400
PHI									
60.000							-.0122		
70.000							-.0304	-.0420	.0000
80.000							-.0522	-.0919	-.1222
90.000	-.0588	.0021	-.0910	-.1617	.0000	.0000	-.0494	-.1169	-.1352
100.000	-.0886	-.0933	-.1227	-.0905	.0551	.0190			
110.000	-.0771	-.1125	-.1263	.1088	.1560	.0897			
120.000						.2552			
130.000						.3484			
140.000						.1316			
150.000						.1672			
160.000						.2672			
170.000						.3290			
180.000	-.0859	.0199	.1862	.2040	.2196	.1995			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.401 ALPHA (7) = 4.289

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3228	.2702	.0913												
70.000	.3204	.2823	.1457												
80.000	.2755	.2755	.2191												
90.000			.3047	.0936	-.1655	-.2130	-.2322	-.2401	-.2392	-.2644	-.2554	-.2580	-.2332	-.2188	-.1674
100.000						-.2130	-.2232	-.2433	-.2515	-.2635	-.2693	-.2904	-.2654	-.2765	-.1985
110.000						-.2145	-.2310	-.2563	-.2725	-.3023	-.3082	-.3009	-.2876	-.2977	-.2238
120.000						-.1759								.0000	
130.000						-.3259								-.2621	
140.000						-.4479								-.2458	
150.000						-.4141								-.2338	
160.000						-.3761								-.2343	
170.000						-.3732								-.2343	
180.000						-.3416	-.2880	-.2714	-.2475	-.2362	-.2309	-.2340	-.2355	-.2368	-.2373

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1239	-.1095	-.0788	-.0737	-.0651	-.0707	-.0588	-.0532	-.0349	-.0017	.0194	-.0107	-.0603	-.0822	-.0820
100.000	-.1485	-.1275	-.0975	-.0788	-.0754	-.0795	-.0779	-.0794	-.0552	-.0489	-.0133	-.0214	-.0469	-.0736	-.0938
110.000	.0000	-.1286	-.1065	-.0979	-.0921	-.0985	-.0931	-.0891	-.0867	-.0765	-.0511	-.0504	-.0584	-.0927	.0000
120.000						-.1455								-.1580	
130.000						-.1674								-.1410	
140.000						-.1661								-.1236	
150.000						-.1680								-.0954	
160.000						-.1764								-.0635	
170.000						-.1850								-.0456	
180.000	-.2443	-.2426	-.2280	-.2171	-.2098	-.2033	-.2012	-.1493	-.1647	-.1286	-.0939	-.0763	-.0548	-.0261	.0437

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0527		
70.000							-.0764	-.0701	.0000
80.000							-.0846	-.1247	-.1473
90.000	-.0822	.0196	-.1227	-.1942	.0000	.0000	-.0699	-.1484	-.1605
100.000	-.1101	-.1099	-.1529	-.1493	.0182	-.0014			
110.000	-.1070	-.1359	-.1598	.0656	.1301	.0697			
120.000						.2496			
130.000						.3214			
140.000						.0945			
150.000						.1378			
160.000						.2425			
170.000						.2871			
180.000	-.1110	-.0119	.1462	.1646	.1858	.1782			

AMES 66-330 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.401 ALPHA (8) = 6.442

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2844	.2353	.0529												
70.000	.2681	.2419	.0961												
80.000	.2306	.2311	.1469												
90.000			.2308	.0867	-.1784	-.2269	-.2444	.2497	-.2431	-.2585	-.2448	-.2284	-.1938	-.1770	-.1562
100.000						-.2248	-.2344	-.2495	-.2540	-.2633	-.2672	-.2770	-.2362	-.2469	-.1860
110.000						-.2239	-.2438	-.2635	-.2791	-.3053	-.3095	-.3013	-.2833	-.2840	-.2244
120.000						-.1873								.0000	
130.000						-.3429								-.2981	
140.000						-.4815								-.2711	
150.000						-.4472								-.2585	
160.000						-.4027								-.2625	
170.000						-.4009								-.2617	
180.000						-.3643	-.3159	-.2961	-.2733	-.2608	-.2548	-.2608	-.2621	-.2621	-.2578

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1250	-.1117	-.0857	-.0812	-.0742	-.0793	-.0658	-.0565	-.0397	-.0150	-.0042	-.0406	-.0859	-.1092	-.1094
100.000	-.1592	-.1453	-.1181	-.0986	-.0900	-.0986	-.0901	-.0849	-.0590	-.0597	-.0382	-.0561	-.0790	-.1054	-.1251
110.000	.0000	-.1588	-.1320	-.1206	-.1144	-.1219	-.1107	-.1075	-.1019	-.0886	-.0790	-.0863	-.0951	-.1302	.0000
120.000						-.1755								-.2062	
130.000						-.1905								-.1678	
140.000						-.1878								-.1178	
150.000						-.1823								-.0786	
160.000						-.1867								-.0475	
170.000						-.1962								-.0267	
180.000	-.2597	-.2505	-.2327	-.2201	-.2122	-.2024	-.1877	-.1057	-.1124	-.0866	-.0643	-.0517	-.0349	-.0133	.0443

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0985		
70.000							-.1291	-.1009	.0000
80.000							-.1141	-.1573	-.1637
90.000	-.1076	-.0457	-.1530	-.2183	.0000	.0000	-.0909	-.1722	-.1877
100.000	-.1340	-.1448	-.1870	-.1866	-.0207	-.0292			
110.000	-.1340	-.1631	-.1957	.0389	.0881	.0482			
120.000						.2486			
130.000						.3020			
140.000						.0614			
150.000						.1262			
160.000						.1843			
170.000						.2082			
180.000	-.1459	.0071	.1456	.1624	.1866	.2323			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (9) = 1.401 ALPHA (9) = 8.526

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2609	.1984	.0233												
70.000	.2282	.2008	.0639												
80.000	.1676	.1918	.1004												
90.000			.1391	.0596	-.1689	-.2365	-.2496	-.2532	-.2428	-.2504	-.2251	-.1953	-.1576	-.1452	-.1452
100.000						-.2376	-.2400	-.2543	-.2521	-.2579	-.2506	-.2526	-.2041	-.2155	-.1653
110.000						-.2376	-.2500	-.2700	-.2824	-.3060	-.3058	-.2855	-.2641	-.2626	-.2079
120.000						-.1997								.0000	
130.000						-.3531								-.3269	
140.000						-.5000								-.2956	
150.000						-.4798								-.2767	
160.000						-.4338								-.2[illegible]	
170.000						-.4266								-.2[illegible]	
180.000						-.4004	-.3462	-.3207	-.2992	-.2853	-.2794	-.2832	-.2825	-.2[illegible]	-.2729

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0993	-.0841	-.0686	-.0744	-.0810	-.0963	-.0881	-.0851	-.0793	-.0450	-.0381	-.0692	-.1150	-.1339	-.1323
100.000	-.1422	-.1301	-.1147	-.1061	-.1055	-.1200	-.1177	-.1175	-.0799	-.0967	-.0734	-.0879	-.1085	-.1330	-.1479
110.000	.0000	-.1719	-.1543	-.1490	-.1413	-.1535	-.1462	-.1402	-.1351	-.1259	-.1213	-.1238	-.1276	-.1614	.0000
120.000						-.2167								-.2514	
130.000						-.2147								-.1628	
140.000						-.2036								-.1032	
150.000						-.1930								-.0681	
160.000						-.1876								-.0469	
170.000						-.1819								-.0329	
180.000	-.2707	-.2616	-.2374	-.2231	-.2008	-.1599	-.1255	-.1435	-.0818	-.0673	-.0516	-.0474	-.0379	-.0262	.0122

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1365		
70.000							-.1631	-.1154	.0000
80.000							-.1411	-.1758	-.1592
90.000	-.1298	-.0250	-.1799	-.2420	.0000	.0000	-.1121	-.1936	-.1965
100.000	-.1577	-.1528	-.2105	-.2002	-.0494	-.0536			
110.000	-.1562	-.1768	-.2179	.0273	.0449	.0276			
120.000						.2384			
130.000						.2770			
140.000						.0325			
150.000						.1265			
160.000						.1636			
170.000						.0988			
180.000	-.1880	-.0885	.1331	.1547	.1832	.2666			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (15) = 1.500 ALPHA (1) = -8.803

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3043	.4669	.2855												
70.000	.3588	.3048	.3571												
80.000	.3633	.4972	.3956												
90.000			.4073	.1400	-.0738	-.1167	-.1296	-.1089	-.0786	-.1016	-.0820	-.0575	-.0227	-.0125	-.0180
100.000						-.1180	-.1331	-.1410	-.1221	-.1077	-.0829	-.0672	-.0232	-.0314	-.0045
110.000						-.1762	-.1675	-.1703	-.1594	-.1311	-.0913	-.0520	-.0227	-.0253	.0046
120.000						-.0495								.0000	
130.000						-.1581								-.0030	
140.000						-.1919								-.0117	
150.000						-.1497								-.0121	
160.000						-.1359								-.0202	
170.000						-.1284								-.0260	
180.000						-.0913	-.0404	-.0327	-.0266	-.0144	-.0023	-.0134	-.0228	-.0301	-.0260

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0089	.0149	.0494	.0544	.0656	.0602	.0723	.0775	.0951	.1160	.1297	.1207	.0921	.0769	.1065
100.000	.0055	.0002	.0188	.0399	.0557	.0544	.0567	.0614	.0814	.0822	.1155	.1138	.0971	.0878	.0744
110.000	.0000	.0143	.0253	.0311	.0436	.0470	.0549	.0597	.0657	.0775	.0874	.0968	.1024	.0885	.0000
120.000						.0393								.0654	
130.000						.0184								.0547	
140.000						.0123								.0328	
150.000						.0250								.0192	
160.000						.0098								.0054	
170.000						.0012								-.0126	
180.000	-.0282	-.0273	-.0169	-.0143	-.0158	-.0183	-.0264	.0069	-.0343	-.0341	-.0200	-.0230	-.0181	-.0135	.0839

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1987		
70.000							.1690	.1327	.0000
80.000							.1444	.0895	.0667
90.000	.1109	.0100	.0803	.1258	.0000	.0000	.1117	.0614	.0601
100.000	.0701	.0378	.0799	.2063	.2136	.1464			
110.000	.0745	.0602	.1552	.2855	.2620	.1610			
120.000						.2879			
130.000						.4931			
140.000						.4167			
150.000						.4556			
160.000						.5826			
170.000						.6425			
180.000	.0778	.0711	.3018	.4065	.4528	.4533			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8019)

MACH (10) = 1.502 ALPHA (2) = -6.437

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4669	.4177	.2605												
70.000	.5085	.4547	.3304												
80.000	.5057	.4766	.3761												
90.000			.3976	.1362	-.0835	-.1261	-.1427	-.1528	-.1410	-.1190	-.0947	-.0807	-.0474	-.0402	-.0444
100.000						-.1277	-.1432	-.1557	-.1703	-.1666	-.1128	-.0904	-.0461	-.0589	-.0300
110.000						-.1751	-.1738	-.1807	-.1830	-.1992	-.1557	-.0821	-.0487	-.0498	-.0189
120.000						-.0699								.0000	
130.000						-.1837								-.0572	
140.000						-.2331								-.0648	
150.000						-.1917								-.0595	
160.000						-.1764								-.0506	
170.000						-.1697								-.0637	
180.000						-.1434	-.0843	-.0751	-.0684	-.0543	-.0451	-.0550	-.0639	-.0676	-.0639

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0157	-.0159	.0123	.0170	.0243	.0206	.0290	.0372	.0577	.0822	.1029	.0942	.0673	.0506	.0640
100.000	-.0196	-.0265	-.0133	.0041	.0189	.0131	.0135	.0215	.0458	.0497	.0878	.0886	.0723	.0622	.0509
110.000	.0000	-.0079	-.0048	.0025	.0069	.0081	.0152	.0223	.0299	.0454	.0609	.0729	.0764	.0643	.0000
120.000						.0079								.0381	
130.000						-.0121								.0213	
140.000						-.0174								-.0025	
150.000						-.0098								-.0184	
160.000						-.0236								-.0293	
170.000						-.0346								-.0442	
180.000	-.0716	-.0714	-.0554	-.0506	-.0524	-.0522	-.0572	-.0287	-.0665	-.0705	-.0589	-.0597	-.0489	-.0391	.0942

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1416		
70.000							.1151	.0895	.0000
80.000							.0946	.0456	.0195
90.000	.0589	-.0096	.0290	.0601	.0000	.0000	.0755	.0211	.0090
100.000	.0324	.0072	.0335	.1525	.1745	.1202			
110.000	.0399	.0256	.0763	.2468	.2411	.1469			
120.000						.2816			
130.000						.4646			
140.000						.3503			
150.000						.3821			
160.000						.4944			
170.000						.5621			
180.000	.0483	.0338	.2525	.3564	.3995	.4024			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (10) = 1.501 ALPHA (3) = -4.264

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4336	.3754	.2301												
70.000	.4755	.4053	.3016												
80.000	.4577	.4054	.3535												
90.000			.3866	.1317	-.0921	-.1361	-.1526	-.1634	-.1630	-.1604	-.1216	-.1000	-.0847	-.0574	-.0621
100.000						-.1339	-.1526	-.1677	-.1820	-.1925	-.1539	-.1302	-.0695	-.0758	-.0506
110.000						-.1757	-.1794	-.1888	-.1944	-.2175	-.1998	-.1329	-.0830	-.0741	-.0394
120.000						-.0886								.0000	
130.000						-.2063								-.0975	
140.000						-.2678								-.0973	
150.000						-.2305								-.0923	
160.000						-.2107								-.0880	
170.000						-.2063								-.0958	
180.000						-.1843	-.1225	-.1117	-.1041	-.0908	-.0804	-.0877	-.0938	-.0990	-.0968

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0378	-.0391	-.0162	-.0125	-.0051	-.0059	.0068	.0139	.0294	.0574	.0716	.0639	.0368	.0191	.0359
100.000	-.0394	-.0500	-.0355	-.0222	-.0125	-.0137	-.0091	-.0014	.0230	.0211	.0619	.0577	.0426	.0337	.0124
110.000	.0000	-.0324	-.0251	-.0240	-.0203	-.0194	-.0078	-.0012	.0066	.0174	.0353	.0398	.0439	.0331	.0000
120.000						-.0196								.0060	
130.000						-.0402								-.0087	
140.000						-.0444								-.0310	
150.000						-.0395								-.0453	
160.000						-.0506								-.0589	
170.000						-.0620								-.0708	
180.000	-.1030	-.1040	-.0915	-.0793	-.0789	-.0767	-.0839	-.0489	-.0965	-.0977	-.0856	-.0865	-.0727	-.0646	.0658

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0913		
70.000							.0765	.0524	.0000
80.000							.0600	.0055	-.0155
90.000	.0384	-.0297	-.0071	.0078	.0000	.0000	.0406	-.0110	-.0300
100.000	.0103	-.0255	-.0048	.0982	.1459	.0931			
110.000	.0151	-.0042	.0135	.2069	.2219	.1311			
120.000						.2748			
130.000						.4301			
140.000						.2890			
150.000						.3233			
160.000						.4228			
170.000						.4872			
180.000	.0158	.0081	.2331	.3126	.3502	.3408			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (10) = 1.501 ALPHA (4) = -2.129

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.203-	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4000	.3395	.1874												
70.000	.4363	.3601	.2585												
80.000	.4116	.3446	.3203												
90.000			.3638	.1243	-.1013	-.1401	-.1522	-.1552	-.1554	-.1858	-.1783	-.1627	-.1135	-.0831	-.0722
100.000						-.1384	-.1530	-.1643	-.1735	-.1826	-.1895	-.1999	-.1391	-.1267	-.0618
110.000						-.1752	-.1820	-.1869	-.1927	-.2158	-.2074	-.1823	-.1590	-.1497	-.0681
120.000						-.1028								0000	
130.000						-.2270								-.1239	
140.000						-.2979								-.1237	
150.000						-.2626								-.1152	
160.000						-.2393								-.1150	
170.000						-.2363								-.1247	
180.000						-.2225	-.1613	-.1462	-.1384	-.1228	-.1119	-.1206	-.1252	-.1274	-.1245

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0466	-.0488	-.0271	-.0316	-.0251	-.0275	-.0169	-.0111	.0057	.0309	.0481	0309	.0132	-.0054	.0040
100.000	-.0482	-.0562	-.0456	-.0392	-.0308	-.0360	-.0328	-.0230	-.0028	-.0007	.0362	0345	.0171	.0066	-.0205
110.000	.0000	-.0371	-.0349	-.0367	-.0384	-.0425	-.0347	-.0252	-.0175	-.0058	.0087	.0162	.0175	.0046	.0000
120.000						-.0429								-.0252	
130.000						-.0596								-.0385	
140.000						-.0666								-.0587	
150.000						-.0636								-.0725	
160.000						-.0777								-.0847	
170.000						-.0864								-.0947	
180.000	-.1297	-.1299	-.1211	-.1141	-.1078	-.1028	-.1079	-.0707	-.1172	-.1181	-.1121	-.1087	-.0970	-.0834	.0368

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0535		
70.000							.0448	.0187	.0000
80.000							.0313	-.0242	-.0476
90.000	.0052	-.0340	-.0170	-.0366	.0000	.0000	.0172	-.0398	-.0630
100.000	-.0198	-.0520	-.0372	.0512	.1200	.0770			
110.000	-.0129	-.0347	-.0254	.1715	.2003	.1194			
120.000						.2691			
130.000						.3979			
140.000						.2326			
150.000						.2641			
160.000						.3565			
170.000						.4244			
180.000	-.0120	-.0211	.2173	.2690	.2989	.2908			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (IO) = 1.500 ALPHA (5) = -.020

SECTION (1)OSB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3644	.3082	.1644												
70.000	.3947	.3241	.2220												
80.000	.3811	.3329	.2797												
90.000			.3448	.1334	-.0923	-.1361	-.1543	-.1648	-.1672	-.1974	-.1939	-.1978	-.1874	-.1790	-.1129
100.000						-.1359	-.1489	-.1694	-.1787	-.1944	-.2021	-.2224	-.1994	-.2072	-.1368
110.000						-.1606	-.1702	-.1855	-.1983	-.2254	-.2297	-.2148	-.2004	-.2000	-.1593
120.000						-.1037								.0000	
130.000						-.2394								-.1529	
140.000						-.3285								-.1529	
150.000						-.2946								-.1425	
160.000						-.2670								-.1431	
170.000						-.2663								-.1435	
180.000						-.2560	-.1927	-.1769	-.1651	-.1500	-.1407	-.1472	-.1473	-.1503	-.1479

X/L	.4500	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0812	-.0558	-.0343	-.0356	-.0380	-.0473	-.0348	-.0250	-.0077	.0177	.0285	.0199	-.0043	-.0247	-.0180
100.000	-.0775	-.0621	-.0466	-.0403	-.0386	-.0505	-.0520	-.0403	-.0182	-.0116	.0168	.0130	-.0026	-.0090	-.0474
110.000	.0000	-.0555	-.0404	-.0412	-.0456	-.0566	-.0499	-.0473	-.0358	-.0228	-.0081	-.0065	-.0005	-.0156	.0000
120.000						-.0627								-.0558	
130.000						-.0792								-.0630	
140.000						-.0905								-.0806	
150.000						-.0897								-.0925	
160.000						-.1062								-.1023	
170.000						-.1184								-.1078	
180.000	-.1523	-.1562	-.1469	-.1422	-.1421	-.1358	-.1347	-.0873	-.1350	-.1348	-.1274	-.1272	-.1095	-.0987	.0146

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0270		
70.000							.0153	-.0007	.0000
80.000							.0011	-.0414	-.0716
90.000	-.0121	-.0849	-.0211	-.0810	.0000	.0000	.0046	-.0611	-.0866
100.000	-.0397	-.0863	-.0526	-.0132	.0976	.0751			
110.000	-.0322	-.0543	-.0561	.1390	.1961	.1246			
120.000						.2723			
130.000						.3653			
140.000						.1749			
150.000						.2073			
160.000						.2967			
170.000						.3609			
180.000	-.0399	-.0351	.2003	.2297	.2508	.2670			

AMES 66-65% PRESSURE VENTING - INTEG. VEHICLE (CR-19)

MACH (I5) = 1.501 ALPHA (6) = 2.154

SECTION (1)OAB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3333	.3060	.1499												
70.000	.3403	.3134	.1930												
80.000	.3200	.3084	.2487												
90.000			.3233	.1378	-.1003	-.1454	-.1626	-.1719	-.1780	-.2013	-.1972	-.2089	-.2018	-.2037	-.2059
100.000						-.1417	-.1549	-.1745	-.1838	-.1993	-.2091	-.2335	-.2192	-.2346	-.2115
110.000						-.1545	-.1689	-.1881	-.2050	-.2328	-.2335	-.2372	-.2263	-.2344	-.2113
120.000						-.1109								.0000	
130.000						-.2526								-.1909	
140.000						-.3565								-.1799	
150.000						-.3235								-.1694	
160.000						-.2925								-.1629	
170.000						-.2352								-.1634	
180.000						-.2745	-.2183	-.2022	-.1868	-.1732	-.1614	-.1709	-.1740	-.1731	-.1697

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7130
PHI															
90.000	-.1227	-.0820	-.0351	-.0466	-.0440	-.0529	-.0459	-.0344	-.0163	.0097	.0221	.0159	-.0095	-.0329	-.0089
100.000	-.1649	-.1004	-.0620	-.0492	-.0452	-.0594	-.0612	-.0571	-.0301	-.0214	.0122	.0092	-.0106	-.0176	-.0529
110.000	.0000	-.1252	-.0668	-.0537	-.0546	-.0670	-.0627	-.0620	-.0520	-.0404	-.0212	-.0180	-.0191	-.0297	.0000
120.000						-.0861								-.0687	
130.000						-.1020								-.0919	
140.000						-.1175								-.1034	
150.000						-.1205								-.1102	
160.000						-.1349								-.1174	
170.000						-.1481								-.1123	
180.000	-.1734	-.1719	-.1642	-.1621	-.1645	-.1636	-.1626	-.1562	-.1556	-.1535	-.1416	-.1504	-.1121	-.0356	.0000

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.9620	.9000	.9400
PHI									
60.000							-.0047		
70.000							-.0260	-.0226	.0000
80.000							-.0269	-.0686	-.0949
90.000	-.0223	-.0373	-.0568	-.1098	.0000	.0000	-.0119	-.0884	-.1104
100.000	-.0453	-.0716	-.0815	-.0725	.0660	.0552			
110.000	-.0425	-.0700	-.0829	.0868	.1741	.1223			
120.000						.2963			
130.000						.3645			
140.000						.1270			
150.000						.1556			
160.000						.2418			
170.000						.2946			
180.000	-.0464	.0277	.1601	.1957	.2122	.2193			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (I0) = 1.551 ALPHA (P) = 4.274

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3152	.2934	.1222												
70.000	.3074	.2971	.1648												
80.000	.2954	.2770	.1906												
90.000			.2715	.1360	.1088	-.1595	-.1756	-.1858	-.1877	-.2131	-.2069	-.2144	-.2081	-.2048	-.2029
100.000						-.1572	-.1653	-.1853	-.1940	-.2108	-.2207	-.2393	-.2283	-.2426	-.2170
110.000						-.1526	-.1734	-.1967	-.2149	-.2454	-.2496	-.2517	-.2469	-.2593	-.2270
120.000						-.1183								.0000	
130.000						-.2617								-.2248	
140.000						-.3787								-.2053	
150.000						-.3500								-.1918	
160.000						-.3157								-.1944	
170.000						-.3155								-.1935	
180.000						-.2982	-.2438	-.2233	-.2052	-.1909	-.1834	-.1935	-.1894	-.1935	-.1898

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1473	-.1044	-.0734	-.0676	-.0608	-.0680	-.0570	-.0453	-.0320	.0069	.0158	.0072	-.0120	-.0396	-.0077
100.000	-.1848	-.1382	-.0912	-.0717	-.0623	-.0738	-.0747	-.0654	-.0392	-.0392	.0021	.0006	-.0167	-.0245	-.0513
110.000	.0000	-.1540	-.1032	-.0810	-.0765	-.0862	-.0823	-.0808	-.0706	-.0556	-.0316	-.0350	-.0307	-.0394	.0000
120.000						-.1179								-.1226	
130.000						-.1270								-.1248	
140.000						-.1348								-.1320	
150.000						-.1404								-.1277	
160.000						-.1518								-.1129	
170.000						-.1631								-.0946	
180.000	-.1925	-.1925	-.1868	-.1835	-.1816	-.1774	-.1759	-.1212	-.1701	-.1646	-.1399	-.1177	-.0909	-.0694	.0285

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0484		
70.000							-.0677	-.0491	.0000
80.000							-.0508	-.0951	-.1200
90.000	-.0313	.0153	-.0778	-.1381	.0000	.0000	-.0271	-.1114	-.1353
100.000	-.0581	-.0844	-.1043	-.1256	.0194	.0381			
110.000	-.0938	-.0807	-.1127	.0068	.1542	.1125			
120.000						.2915			
130.000						.3373			
140.000						.0956			
150.000						.3171			
160.000						.1962			
170.000						.2394			
180.000	-.0587	-.0213	.1419	.1807	.1789	.2014			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (19) = 1.501 ALPHA (8) = 6.345

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3011	.2574	.0869												
70.000	.2677	.2604	.1272												
80.000	.2322	.2412	.1587												
90.000			.1964	.1218	-.1221	-.1734	-.1921	-.2001	-.1992	-.2186	-.2048	-.2007	-.1833	-.1751	-.1625
100.000						-.1728	-.1776	-.1925	-.2027	-.2156	-.2212	-.2389	-.2168	-.2274	-.1890
110.000						-.1626	-.1836	-.2041	-.2197	-.2512	-.2588	-.2587	-.2489	-.2592	-.2229
120.000						-.1309								.0000	
130.000						-.2744								-.2583	
140.000						-.4052								-.2313	
150.000						-.3763								-.2185	
160.000						-.3379								-.2164	
170.000						-.3360								-.2135	
180.000						-.3150	-.2639	-.2450	-.2245	-.2113	-.2054	-.2085	-.2098	-.2124	-.2092

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1179	-.1023	-.0819	-.0856	-.0823	-.0819	-.0658	-.0537	-.0409	.0036	.0102	-.0016	-.0282	-.0390	-.0332
100.000	-.1558	-.1349	-.1112	-.0940	-.0875	-.0953	-.0859	-.0762	-.0503	-.0441	-.0097	-.0090	-.0262	-.0465	-.0719
110.000	.0000	-.1522	-.1201	-.1099	-.1066	-.1123	-.1011	-.0939	-.0819	-.0694	-.0479	-.0486	-.0513	-.0673	.0000
120.000						-.1507								-.1629	
130.000						-.1542								-.1556	
140.000						-.1555								-.1431	
150.000						-.1528								-.1160	
160.000						-.1591								-.0799	
170.000						-.1683								-.0552	
180.000	-.2146	-.2128	-.2035	-.1931	-.1885	-.1811	-.1794	-.1234	-.1666	-.1423	-.1058	-.0805	-.0573	-.0369	.0382

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1089		
70.000							-.1118	-.0805	.0000
80.000							-.0864	-.1225	-.1457
90.000	-.0440	-.0012	-.1110	-.1679	.0000	.0000	-.0538	-.1356	-.1618
100.000	-.0797	-.0855	-.1339	-.1643	-.0306	.0082			
110.000	-.0817	-.1058	-.1493	-.0458	.1023	.0911			
120.000						.2827			
130.000						.3088			
140.000						.0579			
150.000						.1154			
160.000						.1813			
170.000						.2010			
180.000	-.0933	-.0345	.1352	.1523	.1772	.2186			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB019)

MACH (15) = 1.500 ALPHA (9) = 8.479

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4080	.4310
PHI															
60.000	.2717	.2189	.0539												
70.000	.2353	.2146	.0925												
80.000	.1922	.1978	.1198												
90.000			.1487	.0875	-.1313	-.1826	-.2012	-.2100	-.2050	-.2201	-.1992	-.1859	-.1461	-.1319	-.1204
100.000						-.1815	-.1859	-.2029	-.2079	-.2186	-.2202	-.2298	-.1973	-.1971	-.1437
110.000						-.1746	-.1927	-.2124	-.2277	-.2566	-.2628	-.2563	-.2463	-.2493	-.1877
120.000						-.1404								.0000	
130.000						-.2846								-.2921	
140.000						-.4285								-.2617	
150.000						-.4112								-.2450	
160.000						-.3692								-.2366	
170.000						-.3590								-.2378	
180.000						-.3394	-.2876	-.2648	-.2465	-.2335	-.2279	-.2337	-.2337	-.2374	-.2327

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0948	-.0929	-.0785	-.0822	-.0785	-.0799	-.0675	-.0571	-.0488	-.0167	-.0124	-.0326	-.0549	-.0871	-.0630
100.000	-.1317	-.1311	-.1230	-.1124	-.1037	-.1065	-.0942	-.0855	-.0621	-.0626	-.0369	-.0373	-.0566	-.0766	-.0988
110.000	.0000	-.1571	-.1536	-.1521	-.1445	-.1423	-.1210	-.1115	-.1010	-.0925	-.0734	-.0779	-.0794	-.1021	.0000
120.000						-.1846								-.2227	
130.000						-.1816								-.1634	
140.000						-.1788								-.1283	
150.000						-.1686								-.0819	
160.000						-.1731								-.0532	
170.000						-.1748								-.0392	
180.000	-.2361	-.2300	-.2153	-.1994	-.1886	-.1833	-.1778	-.1104	-.1198	-.0930	-.0688	-.0547	-.0426	-.0307	.0300

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
60.000							-.1554		
70.000							-.1522	-.1073	.0000
80.000							-.1179	-.1433	-.1494
90.000	-.0693	-.0265	-.1406	-.1983	.0000	.0000	-.0790	-.1554	-.1719
100.000	-.1040	-.1122	-.1639	-.1979	-.0703	-.0286			
110.000	-.1081	-.1330	-.1872	-.0270	.0502	.0576			
120.000						.2683			
130.000						.2820			
140.000						.0248			
150.000						.1196			
160.000						.1566			
170.000						.1097			
180.000	-.1228	-.0814	.1184	.1358	.1632	.2319			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -4.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 4.000

MACH (1) = .848 ALPHA (1) = -8.465

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1135	.0091	-.3087												
70.000	.2040	.0479	-.1957												
80.000	.2319	.0167	-.1787												
90.000			-.2141	-.5029	-.8554	-.2736	-.1280	-.0807	-.0399	-.0567	-.0215	-.0045	.0524	.0053	.0020
100.000						-.2394	-.1580	-.0954	-.0565	-.0243	-.0179	-.0192	-.0215	-.0260	.0086
110.000						-.3094	-.2770	-.1405	-.0831	-.0375	-.0161	-.0318	-.0043	-.0280	.0002
120.000						-.5176								.0000	
130.000						-.3532								-.0280	
140.000						-.3368								-.0430	
150.000						-.2624								-.0316	
160.000						-.2148								-.0460	
170.000						-.1505								-.0645	
180.000						-.1477	-.0967	-.0982	-.1017	-.0982	-.0641	-.0804	-.0643	-.0611	-.0415

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0296	.0268	.0512	.0843	.1082	.1020	.1038	.1140	.1077	.0832	.0769	.0342	.0147	.0097	-.0118
100.000	-.0062	.0055	.0288	.0661	.0866	.0832	.0730	.0758	.0949	.0583	.0717	.0448	.0338	.0411	.0008
110.000	.0000	.0227	.0502	.0545	.0722	.0748	.0737	.0942	.0910	.0773	.0611	.0433	.0548	.0513	.0000
120.000						.0646								.0404	
130.000						.0052								.0420	
140.000						.0126								.0782	
150.000						.0282								.0868	
160.000						.0180								.0795	
170.000						.0214								.0719	
180.000	-.0258	-.0059	.0092	.0147	.0130	.0026	-.0064	.0043	.0115	-.0050	.0247	.0234	.0585	.0626	.1334

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0121		
70.000							-.0168	-.0512	.0000
80.000							-.0340	-.0825	-.0895
90.000	-.0085	.0428	.0461	.0239	.0000	.0000	-.0165	-.0638	-.1024
100.000	-.0127	.0533	.0679	.0846	.0051	-.0609			
110.000	.0692	.1030	.1304	.1271	.0403	-.1453			
120.000						-.1886			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .848 ALPHA (1) = -8.466

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.0660			
140.000						.1401			
150.000						.2179			
160.000						.3132			
170.000						.4536			
180.000	.0548	.1921	.2515	.3145	.3877	.2828			

MACH (1) = .849 ALPHA (2) = -6.330

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1095	.0002	-.2936												
70.000	.1924	.0458	-.1897												
80.000	.2105	.0313	-.1654												
90.000			-.1884	-.4888	-.8215	-.4002	-.1639	-.0876	-.0598	-.0777	-.0523	-.0400	-.0083	-.0023	-.0190
100.000						-.4543	-.2059	-.1122	-.0728	-.0523	-.0271	-.0542	-.0267	-.0454	-.0170
110.000						-.6354	-.2242	-.1481	-.0965	-.0652	-.0409	-.0293	-.0241	-.0379	-.0115
120.000						-.6997								.0000	
130.000						-.8137								-.0409	
140.000						-.5770								-.0520	
150.000						-.4726								-.0582	
160.000						-.3801								-.0730	
170.000						-.2904								-.0700	
180.000						-.2149	-.0921	-.0982	-.1165	-.1137	-.0919	-.0846	-.0535	-.0640	-.0449

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0147	.0164	.0248	.0485	.0564	.0597	.0780	.0601	.0780	.0454	.0136	-.0184	-.0504	-.0550	-.0404
100.000	-.0042	.0014	.0043	.0201	.0425	.0427	.0518	.0527	.0691	.0242	.0270	-.0192	-.0511	-.0426	-.0491
110.000	.0000	.0095	.0097	.0235	.0261	.0263	.0454	.0501	.0525	.0428	.0158	-.0136	-.0070	-.0199	.0000
120.000						.0224								.0034	
130.000						.0023								.0244	
140.000						-.0173								.0311	
150.000						.0097								.0317	
160.000						-.0057								.0350	
170.000						-.0064								.0324	
180.000	-.0577	-.0434	-.0290	-.0365	-.0124	.0006	-.0223	-.0330	-.0302	-.0324	.0013	-.0094	.0065	.0283	.1028

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .849 ALPHA (2) = -6.330

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0237		
70.000							-.0553	-.0574	.0000
80.000							-.0737	-.0970	-.0894
90.000	-.0652	.0030	-.0069	-.0061	.0000	.0000	-.0803	-.1177	-.0968
100.000	-.0288	.0283	.0384	.0439	-.0195	-.0776			
110.000	.0184	.0651	.1164	.1203	.0225	-.1437			
120.000						-.1873			
130.000						.0502			
140.000						.0846			
150.000						.1774			
160.000						.2448			
170.000						.4020			
180.000	.0166	.1616	.2279	.2850	.3532	.2352			

MACH (1) = .850 ALPHA (3) = -4.193

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1058	-.0005	-.2835												
70.000	.1830	.0510	-.1765												
80.000	.1852	.0288	-.1601												
90.000			-.1763	-.4597	-.8093	-.4496	-.1876	-.1044	-.0736	-.0908	-.0617	-.0464	-.0252	-.0069	-.0379
100.000						-.4985	-.2190	-.1337	-.0798	-.0572	-.0451	-.0652	-.0363	-.0568	-.0296
110.000						-.8507	-.2544	-.1623	-.1035	-.0671	-.0455	-.0347	-.0139	-.0570	-.0249
120.000						-.7572								.0007	
130.000						-.9588								-.0585	
140.000						-.6060								-.0716	
150.000						-.5353								-.0713	
160.000						-.5162								-.0745	
170.000						-.3658								-.0416	
180.000						-.4453	-.1283	-.0968	-.1065	-.1091	-.0912	-.0797	-.0668	-.0775	-.0561

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6530	.673	.6[illegible]	.71[illegible]
PHI															
90.000	-.0009	-.0007	.0118	.0226	.0409	.0376	.0580	.0452	.0355	.0066	-.0235	.0696	-.1204	-.1232	-.1033
100.000	-.0199	-.0288	-.0178	.0010	.0208	.0157	.0200	.0245	.0303	-.0174	-.0165	-.0748	-.0925	-.[illegible]	-.[illegible]
110.000	.0000	-.0131	-.0065	-.0056	.0047	.0010	.0159	.0174	.0155	.0044	-.0320	-.0523	-.0685	-.[illegible]	.[illegible]
120.000						-.0060								-.0379	
130.000						-.0337								-.0184	
140.000						-.0359								-.0148	
150.000						-.0145								.0057	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .850 ALPHA (3) = -4.193

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0285								.0116	
170.000						-.0113								-.0039	
180.000	-.0871	-.0644	-.0367	-.0479	-.0416	-.0316	-.0440	-.0503	-.0523	-.0503	-.0314	-.0370	-.0161	.0029	.0774

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0224		
70.000							-.0530	-.0472	.0000
80.000							-.0579	-.0956	-.0727
90.000	-.1080	-.0517	-.0442	-.0358	.0000	.0000	-.0760	-.0967	-.0812
100.000	-.0678	-.0250	.0025	.0226	-.0205	-.0927			
110.000	-.0308	.0251	.0866	.1121	.0244	-.1461			
120.000						-.1833			
130.000						.0452			
140.000						.0351			
150.000						.1197			
160.000						.2239			
170.000						.3560			
180.000	-.0219	.1408	.1978	.2534	.3147	.2056			

MACH (1) = .850 ALPHA (4) = -1.987

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0919	-.0007	-.2581												
70.000	.1678	.0459	-.1678												
80.000	.1676	.0200	-.1393												
90.000			-.1484	-.4166	-.7949	-.5203	-.1884	-.1223	-.0962	-.1067	-.0742	-.0651	-.0354	-.0348	-.0478
100.000						-.5056	-.2158	-.1492	-.1070	-.0766	-.0606	-.0815	-.0491	-.0815	-.0478
110.000						-.8365	-.2632	-.1833	-.1281	-.0932	-.0697	-.0586	-.0470	-.0825	-.0468
120.000						-.7410								.0000	
130.000						-.9734								-.0744	
140.000						-.7479								-.0873	
150.000						-.7343								-.0813	
160.000						-.6902								-.0791	
170.000						-.7009								-.0870	
180.000						-.7005	-.5121	-.3363	-.1798	-.1121	-.0761	-.0684	-.0611	-.0605	-.0532

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .850 ALPHA (4) = -1.987

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0198	-.0169	-.0052	.0030	.0135	.0116	.0252	.0191	-.0006	-.0407	-.0687	-.1277	-.1607	-.1910	-.1641
100.000	-.0429	-.0431	-.0334	-.0114	.0043	-.0079	-.0080	-.0037	.0012	-.0393	-.0657	-.1231	-.1598	-.1515	-.1602
110.000	.0000	-.0287	-.0223	-.0244	-.0152	-.0242	-.0200	-.0198	-.0191	-.0421	-.0777	-.1093	-.1327	-.1368	.0000
120.000						-.0292								-.0875	
130.000						-.0567								-.0563	
140.000						-.0628								-.0427	
150.000						-.0377								-.0373	
160.000						-.0416								-.0301	
170.000						-.0438								-.0234	
180.000	-.0643	-.0598	-.0517	-.0499	-.0444	-.0486	-.0569	-.0665	-.0667	-.0746	-.0556	-.0574	-.0386	-.0195	.0451

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0225		
70.000							-.0535	-.0429	.0000
80.000							-.0725	-.0862	-.0647
90.000	-.1914	-.1087	-.0818	-.0650	.0000	.0000	-.0795	-.0957	-.0707
100.000	-.1494	-.0619	-.0258	.0073	-.0487	-.1982			
110.000	-.0925	-.0129	.0591	.0960	.0219	-.1581			
120.000						-.1685			
130.000						.0340			
140.000						-.0080			
150.000						.0864			
160.000						.1932			
170.000						.3236			
180.000	-.0793	.1084	.1735	.2227	.2813	.1612			

MACH (1) = .850 ALPHA (5) = .077

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0811	-.0009	-.2216												
70.000	.1612	.0397	-.1552												
80.000	.1370	.0403	-.1184												
90.000			-.1197	-.3823	-.7630	-.5327	-.2149	-.1530	-.1196	-.1366	-.0952	-.0845	-.0565	-.0445	-.0654
100.000						-.5588	-.2423	-.1776	-.1329	-.1066	-.0829	-.1049	-.0641	-.0335	-.0609
110.000						-.6074	-.2975	-.2186	-.1567	-.1226	-.0870	-.0643	-.0564	-.0313	-.0617
120.000						-.7565								.0000	
130.000						-.9736								-.0961	
140.000						-.7867								-.0961	
150.000						-.7304								-.0931	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .850 ALPHA (3) = .077

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.7158								-.0868	
170.000						-.7287								-.0802	
180.000						-.7537	-.5976	-.3927	-.2410	-.1560	-.0956	-.0602	-.0551	-.0583	-.0534

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0334	-.0339	-.0287	-.0146	-.0090	-.0092	.0017	-.0071	-.0333	-.0804	-.1186	-.1877	-.2524	-.2749	-.2540
100.000	-.0555	-.0609	-.0450	-.0334	-.0109	-.0354	-.0311	-.0357	-.0385	-.0988	-.1081	-.1818	-.2314	-.2336	-.2368
110.000	.0000	-.0538	-.0448	-.0491	-.0390	-.0517	-.0394	-.0490	-.0512	-.0813	-.1230	-.1724	-.1940	-.2194	.0000
120.000						-.0667								-.1380	
130.000						-.0909								-.1138	
140.000						-.0778								-.0908	
150.000						-.0606								-.0709	
160.000						-.0610								-.0615	
170.000						-.0573								-.0580	
180.000	-.0635	-.0602	-.0596	-.0660	-.0585	-.0584	-.0726	-.0852	-.0857	-.0881	-.0795	-.0766	-.0701	-.0497	.0162

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0298		
70.000							-.0687	-.0412	.0000
80.000							-.0857	-.0840	-.0585
90.000	-.2815	-.1496	-.1103	-.0815	.0000	.0000	-.0830	-.0846	-.0737
100.000	-.2209	-.1212	-.0588	-.0104	-.0501	-.1113			
110.000	-.1578	-.0653	.0366	.0894	.0142	-.1585			
120.000						-.1585			
130.000						.0149			
140.000						-.0554			
150.000						.0424			
160.000						.1558			
170.000						.2711			
180.000	-.1547	.0824	.1337	.1853	.2366	.1174			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .848 ALPHA (6) = 2.228

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0661	-.0153	-.1983												
70.000	.1283	.0299	-.1380												
80.000	.1034	.0167	-.1096												
90.000			-.1105	-.3686	-.7461	-.5161	-.2170	-.1795	-.1486	-.1622	-.1168	-.1055	-.0720	-.0720	-.0834
100.000						-.4858	-.2685	-.2124	-.1666	-.1306	-.1138	-.1311	-.0916	-.1183	-.0782
110.000						-.7496	-.3336	-.2585	-.1990	-.1540	-.1293	-.1099	-.1017	-.1258	-.0763
120.000						-.7255								.0000	
130.000						-.9417								-.1247	
140.000						-.7288								-.217	
150.000						-.6663								-.1019	
160.000						-.7258								-.0937	
170.000						-.7208								-.0775	
180.000						-.7547	-.6305	-.4903	-.3750	-.2886	-.1627	-.1588	-.0709	-.0505	-.0477

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7190
PHI															
90.000	-.0449	-.0564	-.0478	-.0293	-.0132	-.0293	-.0219	-.0276	-.0572	-.1117	-.1542	-.2303	-.3193	-.3320	-.3383
100.000	-.0694	-.0820	-.0638	-.0493	-.0379	-.0496	-.0521	-.0629	-.0646	-.1409	-.1566	-.2333	-.2971	-.2956	-.3315
110.000	.0000	-.0767	-.0706	-.0638	-.0584	-.0779	-.0697	-.0738	-.0835	-.1168	-.1735	-.2257	-.2612	-.2704	.0000
120.000						-.1003								-.2195	
130.000						-.1198								-.1592	
140.000						-.1045								-.1347	
150.000						-.0716								-.1141	
160.000						-.0737								-.0847	
170.000						-.0758								-.0962	
180.000	-.0614	-.0556	-.0573	-.0622	-.0577	-.0690	-.0846	-.0894	-.0942	-.1016	-.1038	-.0952	-.0899	-.0748	-.0156

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0261		
70.000							-.0620	-.0417	.0000
80.000							-.0753	-.0928	-.0535
90.000	-.4212	-.2485	-.1411	-.0847	.0000	.0000	-.0897	-.0975	-.0710
100.000	-.3618	-.1883	-.0780	-.0189	-.0492	-.1166			
110.000	-.2520	-.1142	.0132	.0821	.0081	-.1565			
120.000						-.1515			
130.000						.0075			
140.000						-.0988			
150.000						-.0087			
160.000						.1050			
170.000						.2061			
180.000	-.2588	.0481	.1037	.1509	.1675	.1170			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB030)

MACH (1) = .846 ALPHA (7) = 4.156

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0394	-.0232	-.1771												
70.000	.0852	.0196	-.1246												
80.000	.0694	.0007	-.0979												
90.000			-.0885	-.3416	-.7079	-.3631	-.2204	-.1892	-.1614	-.1870	-.1588	-.1401	-.1087	-.0964	-.0979
100.000						-.3605	-.2619	-.2454	-.2103	-.1555	-.1369	-.1668	-.1234	-.1445	-.0999
110.000						-.5144	-.2858	-.3077	-.2874	-.1946	-.1859	-.1586	-.1383	-.1659	-.1141
120.000						-.6477								.0000	
130.000						-.7035								-.1702	
140.000						-.6362								-.1424	
150.000						-.6744								-.1268	
160.000						-.7179								-.1191	
170.000						-.7333								-.0919	
180.000						-.7257	-.6595	-.5955	-.4542	-.3435	-.2606	-.2235	-.1163	-.0688	-.0433

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0770	-.0546	-.0494	-.0341	-.0266	-.0490	-.0382	-.0542	-.0865	-.1498	-.1852	-.2635	-.3549	-.3846	-.4085
100.000	-.0938	-.0851	-.0805	-.0598	-.0518	-.0693	-.0777	-.0931	-.0951	-.1810	-.1804	-.2687	-.3248	-.3417	-.3945
110.000	.0000	-.0825	-.0805	-.0881	-.0840	-.1073	-.1015	-.1085	-.1256	-.1720	-.2030	-.2654	-.3013	-.3228	.0000
120.000						-.1325								-.2575	
130.000						-.1393								-.1929	
140.000						-.1219								-.1524	
150.000						-.0896								-.1388	
160.000						-.0817								-.1135	
170.000						-.0780								-.1113	
180.000	-.0441	-.0514	-.0428	-.0551	-.0566	-.0685	-.0832	-.1010	-.1085	-.1270	-.0993	-.1142	-.0982	-.1012	-.0427

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0057		
70.000							-.0559	-.0418	.0000
80.000							-.0688	-.0769	-.0595
90.000	-.5001	-.3358	-.1705	-.1000	.0000	.0000	-.0865	-.0992	-.0699
100.000	-.4655	-.2565	-.1166	-.0308	-.0562	-.0830			
110.000	-.3569	-.1528	-.0025	.0634	.0116	-.1217			
120.000						-.1188			
130.000						.0059			
140.000						-.1434			
150.000						-.0234			
160.000						.0849			
170.000						.1400			
180.000	-.3392	.0087	.0812	.1060	.1532	.1652			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .846 ALPHA (8) = 6.521

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0337	-.0307	-.1621												
70.000	.0752	.0187	-.1152												
80.000	.0391	.0065	-.0893												
90.000			-.0884	-.3241	-.7054	-.3934	-.2252	-.2131	-.2150	-.2457	-.1890	-.1831	-.1203	-.1143	-.1259
100.000						-.3750	-.2656	-.2704	-.2526	-.2140	-.2033	-.2159	-.1548	-.1857	-.1259
110.000						-.6061	-.3045	-.3443	-.3165	-.2743	-.2287	-.1814	-.1717	-.1944	-.1458
120.000						-.6656								.0000	
130.000						-.7219								-.2104	
140.000						-.6732								-.1937	
150.000						-.6702								-.1715	
160.000						-.6967								-.1618	
170.000						-.7130								-.1613	
180.000						-.7108	-.7103	-.6753	-.6051	-.5202	-.4305	-.2272	-.1600	-.1441	-.0715

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0769	-.0732	-.0836	-.0804	-.0427	-.0544	-.0357	-.0735	-.1114	-.1668	-.2159	-.3113	-.4061	-.4259	-.4428
100.000	-.1086	-.1248	-.1101	-.0859	-.0628	-.0851	-.1013	-.1151	-.1182	-.2128	-.2181	-.3223	-.3896	-.3947	-.4344
110.000	.0000	-.1265	-.1237	-.1177	-.1052	-.1218	-.1259	-.1378	-.1602	-.1888	-.2506	-.3276	-.3659	-.3866	.0000
120.000						-.1594								-.3076	
130.000						-.1450								-.2315	
140.000						-.1222								-.1864	
150.000						-.0905								-.1693	
160.000						-.0918								-.1446	
170.000						-.0870								-.1347	
180.000	-.0509	-.0574	-.0496	-.0475	-.0473	-.0773	-.1035	-.1142	-.1184	-.1226	-.1371	-.1435	-.1411	-.1064	-.0610

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0407		
70.000							-.1186	-.0953	.0000
80.000							-.1328	-.1363	-.0863
90.000	-.5341	-.4207	-.1917	-.1212	.0000	.0000	-.1388	-.1513	-.0999
100.000	-.4720	-.3311	-.1487	-.0445	-.0512	-.1147			
110.000	-.3973	-.2260	-.0512	.0483	.0126	-.1340			
120.000						-.1134			
130.000						-.0207			
140.000						-.2051			
150.000						-.0780			
160.000						-.0040			
170.000						.0443			
180.000	-.3778	-.0318	.0288	.0857	.1111	.1654			

AMES 66-630 PRESSURE VENTING - INTEG VEHICLE (REB020)

MACH (1) = .849 ALPHA (9) = 8.669

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0206	-.0276	-.1236												
70.000	.0457	.0148	-.0890												
80.000	.0031	.0245	-.0682												
90.000			-.0894	-.3055	-.6665	-.3326	-.2546	-.2156	-.2230	-.2498	-.2182	-.1815	-.1206	-.1110	-.1408
100.000						-.3217	-.2847	-.2718	-.2698	-.2353	-.1880	-.2290	-.1615	-.1881	-.1350
110.000						-.4560	-.3208	-.3540	-.3495	-.2979	-.2478	-.2031	-.1982	-.2244	-.1761
120.000						-.5709								.0000	
130.000						-.5973								-.2210	
140.000						-.6189								-.1997	
150.000						-.6630								-.1758	
160.000						-.6835								-.1778	
170.000						-.7071								-.1524	
180.000						-.7097	-.7103	-.6720	-.6122	-.5000	-.3802	-.2562	-.1593	-.1471	-.0753

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0964	-.0869	-.0861	-.0870	-.0599	-.0749	-.0585	-.0738	-.1200	-.1953	-.2450	-.3397	-.4430	-.4666	-.4726
100.000	-.1260	-.1284	-.1213	-.1078	-.0839	-.1095	-.1036	-.1296	-.1362	-.2388	-.2437	-.3480	-.4193	-.4307	-.4596
110.000	.0000	-.1529	-.1445	-.1436	-.1301	-.1520	-.1519	-.1594	-.1922	-.2283	-.2887	-.3587	-.4053	-.4403	.0000
120.000						-.1920								-.3303	
130.000						-.1519								-.2314	
140.000						-.1187								-.1918	
150.000						-.1031								-.1923	
160.000						-.0965								-.1756	
170.000						-.0861								-.1573	
180.000	-.0848	-.0317	-.0564	-.0831	-.0801	-.0725	-.0983	-.1160	-.1213	-.1368	-.1455	-.1540	-.1601	-.1472	-.0810

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0883		
70.000							-.1513	-.1580	.0000
80.000							-.1830	-.1957	-.1414
90.000	-.5878	-.4034	-.1525	-.0961	.0000	.0000	-.1723	-.2071	-.1542
100.000	-.5205	-.2990	-.1177	-.0219	-.0314	-.1074			
110.000	-.3648	-.1454	-.0147	.0505	.0111	-.0997			
120.000						-.0653			
130.000						-.0200			
140.000						-.2311			
150.000						-.0963			
160.000						-.0270			
170.000						-.0208			
180.000	-.3259	-.0942	.0147	.0495	.0862	.2111			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.230 ALPHA (1) = -8.491

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4816	.4063	.1810												
90.000	.9312	.4401	.2602												
80.000	.5456	.4252	.2860												
90.000			.2728	-.0024	-.2181	-.2467	-.2562	-.2416	-.2155	-.2443	-.1992	-.1537	-.0983	-.0746	-.0436
100.000						-.2455	-.2619	-.2695	-.2610	-.2375	-.1862	-.1550	-.1020	-.1071	-.0903
110.000						-.3335	-.3043	-.2990	-.2893	-.2508	-.1915	-.1293	-.0947	-.1025	-.0630
120.000						-.1804								.0000	
130.000						-.3072								-.0649	
140.000						-.3396								-.0951	
150.000						-.2915								-.0981	
160.000						-.2730								-.0938	
170.000						-.2423								-.1113	
180.000						-.1639	-.1382	-.1181	-.0932	-.0905	-.0879	-.1064	-.1093	-.1147	-.1195

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	-.0024	.0032	.0156	-.0002	-.0061	-.0266	-.0125	.0107	.0636	.1022	.1031	.0776	.0670	.0436	.0386
100.000	-.0231	-.0193	-.0051	-.0113	-.0134	-.0347	-.0360	-.0189	.0397	.0677	.0957	.0698	.0696	.0741	.0360
110.000	.0000	-.0188	-.0119	-.0168	-.0225	-.0412	-.0360	-.0251	.0687	.0541	.0775	.0631	.0602	.0677	.0000
120.000						-.0300								.0362	
130.000						-.0588								.0288	
140.000						-.0660								.0175	
150.000						-.0544								.0051	
160.000						-.0758								-.0058	
170.000						-.0883								-.0249	
180.000	-.1325	-.1359	-.1232	-.1199	-.1150	-.1104	-.1209	-.1288	-.1199	-.1019	-.0772	-.0710	-.0500	-.0343	.0506

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.2074		
90.000							.1768	.1016	.0000
80.000							.1553	.0585	.1077
90.000	.0449	-.0311	.1042	.1492	.0000	.0000	.1219	.0343	.1227
100.000	.0190	.0053	.0867	.2062	.1955	.1082			
110.000	.0331	.0542	.2234	.2750	.2055	.1178			
120.000						.1790			
130.000						.4166			
140.000						.4108			
150.000						.4654			
160.000						.5599			
170.000						.6440			
180.000	.0383	.1025	.4178	.1877	.5454	.5092			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.251 ALPHA (2) = -6.388

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4505	.3834	.1739												
70.000	.4929	.4207	.2549												
80.000	.5038	.4328	.2826												
90.000			.2805	.0008	-.2215	-.2481	-.2595	-.2428	-.2187	-.2496	-.2201	-.1857	-.1303	-.1089	-.0810
100.000						-.2496	-.2663	-.2755	-.2615	-.2520	-.2072	-.1884	-.1306	-.1367	-.0761
110.000						-.3255	-.3036	-.3048	-.3022	-.2704	-.2119	-.1535	-.1208	-.1260	-.0813
120.000						-.1946								.0000	
130.000						-.3333								-.1052	
140.000						-.3866								-.1183	
150.000						-.3306								-.1213	
160.000						-.3158								-.1311	
170.000						-.2970								-.1411	
180.000						-.2115	-.1837	-.1598	-.1389	-.1305	-.1244	-.1384	-.1406	-.1435	-.1459

X/L	.4900	.4600	.4060	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0344	-.0270	-.0083	-.0215	-.0266	-.0471	-.0377	-.0213	.0215	.0611	.0721	.0454	.0343	.0257	.0012
100.000	-.0534	-.0480	-.0288	-.0329	-.0320	-.0539	-.0610	-.0479	-.0047	.0262	.0612	.0455	.0279	.0360	.0016
110.000	.0000	-.0449	-.0310	-.0324	-.0412	-.0568	-.0575	-.0513	-.0289	.0136	.0401	.0397	.0302	.0331	.0000
120.000						-.0500								.0049	
130.000						-.0829								-.0038	
140.000						-.0921								-.0129	
150.000						-.0814								-.0263	
160.000						-.1012								-.0394	
170.000						-.1148								-.0650	
180.000	-.1367	-.1604	-.1476	-.1404	-.1364	-.1340	-.1433	-.1438	-.1295	-.1159	-.0971	-.0974	-.0827	-.0676	.0151

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1616		
70.000							.1263	.0704	.0000
80.000							.1066	.0193	.0497
90.000	-.0045	-.0457	.0209	.0664	.0000	.0000	.0789	-.0028	.0654
100.000	-.0268	-.0318	.0034	.1489	.1443	.0730			
110.000	-.0099	.0174	.1556	.2369	.1755	.0778			
120.000						.1749			
130.000						.3920			
140.000						.3584			
150.000						.4106			
160.000						.4976			
170.000						*4			
180.000	-.0046	.1775	.3*62	.4334	.4817	.25			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB02D)

MACH (2) = 1.251 ALPHA (3) = -4.178

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3769	.3532	.1680												
70.000	.4425	.3885	.2427												
80.000	.4504	.3690	.2736												
90.000			.2754	-.0018	-.2233	-.2525	-.2611	-.2414	-.2216	-.2499	-.2291	-.2083	-.1579	-.1370	-.1154
100.000						-.2511	-.2712	-.2772	-.2577	-.2543	-.2267	-.2145	-.1601	-.1694	-.1077
110.000						-.3207	-.3044	-.3095	-.3092	-.2884	-.2346	-.1863	-.1470	-.1582	-.1076
120.000						-.2138								.0000	
130.000						-.3584								-.1342	
140.000						-.4297								-.1470	
150.000						-.3747								-.1533	
160.000						-.3603								-.1609	
170.000						-.3454								-.1755	
180.000						-.2601	-.2293	-.2128	-.1841	-.1720	-.1659	-.1770	-.1745	-.1777	-.1745

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0680	-.0607	-.0378	-.0463	-.0500	-.0705	-.0625	-.0492	-.0072	.0274	.0361	.0090	.0127	.0114	-.0168
100.000	-.0813	-.0795	-.0597	-.0550	-.0568	-.0773	-.0853	-.0742	-.0287	-.0061	.0324	.0054	.0013	.0221	-.0180
110.000	.0000	-.0694	-.0582	-.0580	-.0649	-.0848	-.0822	-.0763	-.0570	-.0173	.0091	.0011	.0016	.0213	.0000
120.000						-.0792								-.0206	
130.000						-.1105								-.0272	
140.000						-.1179								-.0415	
150.000						-.1074								-.0548	
160.000						-.1260								-.0669	
170.000						-.1387								-.0843	
180.000	-.1824	-.1827	-.1646	-.1602	-.1585	-.1556	-.1613	-.1539	-.1396	-.1312	-.1080	-.1056	-.0983	-.0858	-.0083

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1154		
70.000							.0823	.0335	.0000
80.000							.0620	-.0243	-.0091
90.000	-.0319	-.0634	-.0503	.0042	.0000	.0000	.0399	-.0459	-.0026
100.000	-.0507	-.0546	-.0552	.1099	.1179	.0428			
110.000	-.0317	-.0322	.0940	.2166	.1698	.0655			
120.000						.1749			
130.000						.3706			
140.000						.3024			
150.000						.3622			
160.000						.4385			
170.000						.5179			
180.000	-.0328	.1969	.3360	.3873	.4273	.4063			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (2) = 1.251 ALPHA (4) = -2.053

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1645	.2030	.2420	.2640	.2820	.3015	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3349	.3054	.1354												
70.000	.4003	.3489	.2051												
80.000	.3936	.3501	.2483												
90.000			.2614	-.0074	-.2303	-.2539	-.2633	-.2418	-.2183	-.2382	-.2209	-.2144	-.1657	-.1444	-.1364
100.000						-.2596	-.2754	-.2811	-.2530	-.2452	-.2306	-.2256	-.1779	-.1861	-.1298
110.000						-.3197	-.3062	-.3125	-.3075	-.2988	-.2493	-.2013	-.1698	-.1796	-.1207
120.000						-.2323								.0000	
130.000						-.3816								-.1574	
140.000						-.4697								-.1703	
150.000						-.4163								-.1803	
160.000						-.4003								-.1925	
170.000						-.3976								-.2044	
180.000						-.3127	-.2769	-.2571	-.2279	-.2142	-.2062	-.2110	-.2088	-.2122	-.2049

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0985	-.0899	-.0674	-.0730	-.0757	-.0903	-.0793	-.0624	-.0210	.0168	.0279	-.0108	-.0136	-.0117	-.0378
100.000	-.1096	-.1118	-.0869	-.0838	-.0815	-.1028	-.1046	-.0891	-.0432	-.0196	.0231	-.0137	-.0258	.0459	-.0424
110.000	.0700	-.0999	-.0823	-.0872	-.0933	-.1139	-.1069	-.0960	-.0727	-.0299	-.0042	-.0149	-.0242	.0001	.0000
120.000						-.1116								-.0456	
130.000						-.1388								-.0444	
140.000						-.1452								-.0515	
150.000						-.1360								-.0599	
160.000						-.1462								-.0649	
170.000						-.1533								-.0755	
180.000	-.2077	-.2118	-.1873	-.1771	-.1685	-.1650	-.1604	-.1516	-.1400	-.1335	-.1127	-.1030	-.0892	-.0756	-.0018

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0663		
70.000							.0382	-.0067	.0000
80.000							.0221	-.0642	-.0647
90.000	-.0849	-.0860	-.0795	-.0438	.0000	.0000	.0017	-.0821	-.0640
100.000	-.0823	-.0818	-.0856	.0769	.0964	.0130			
110.000	-.0838	-.0841	.0361	.1938	.1321	.0522			
120.000						.1740			
130.000						.3451			
140.000						.2443			
150.000						.3051			
160.000						.3923			
170.000						.4706			
180.000	-.0810	.2052	.3079	.3440	.3754	.3353			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.250 ALPHA (5) = .193

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3108	.2816	.1082												
70.000	.3587	.3202	.1818												
80.000	.3444	.3144	.2268												
90.000			.2555	-.0251	-.2725	-.2924	-.3013	-.3004	-.2258	-.2095	-.1899	-.1802	-.1503	-.1458	-.1583
100.000						-.2904	-.3049	-.3185	-.3086	-.2279	-.2097	-.2114	-.1622	-.1808	-.1424
110.000						-.3454	-.3325	-.3439	-.3486	-.3267	-.2492	-.2027	-.1674	-.1817	-.1327
120.000						-.2680								.0000	
130.000						-.4189								-.1771	
140.000						-.5186								-.1907	
150.000						-.4619								-.2052	
160.000						-.4402								-.2217	
170.000						-.4342								-.2467	
180.000						-.3623	-.3149	-.2953	-.2698	-.2580	-.2487	-.2517	-.2459	-.2532	-.2329

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1195	-.1143	-.0903	-.0921	- 0913	-.0976	-.0801	-.0694	-.0344	.0063	.0171	-.0323	-.0601	-.0347	-.0662
100.000	-.1324	-.1316	-.1082	-.0999	-.0992	-.1109	-.1029	-.0929	-.0492	-.0314	.0066	-.0318	-.0549	-.0236	-.0765
110.000	.0000	-.1187	-.1060	-.1086	-.1142	-.1262	-.1148	-.1025	-.0846	-.0551	-.0276	-.0394	-.0615	-.0332	.0000
120.000						-.1430								-.0787	
130.000						-.1716								-.0646	
140.000						-.1740								-.0573	
150.000						-.1598								-.0568	
160.000						-.1716								-.0561	
170.000						-.1729								-.0599	
180.000	-.2305	-.2215	-.2012	-.1960	-.1829	-.1705	-.1493	-.1400	-.1312	-.1193	-.0910	-.0866	-.0690	-.0551	.0354

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0242		
70.000							.0074	-.0440	.0000
80.000							-.0094	-.0972	-.1153
90.000	-.1032	-.0731	-.1186	-.1256	.0000	.0000	-.0275	-.1121	-.1250
100.000	-.1256	-.1245	-.1325	.0320	.0663	-.0025			
110.000	-.1009	-.1114	-.0430	.1887	.1494	.0467			
120.000						.1828			
130.000						.3295			
140.000						.1866			
150.000						.2510			
160.000						.3397			
170.000						.4165			
180.000	-.1012	.1384	.2685	.2969	.3288	.3212			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.251 ALPHA (6) = 2.267

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2903	.2444	.0810												
70.000	.3247	.2903	.1547												
80.000	.2848	.3072	.2038												
90.000			.2485	-.0239	-.2809	-.3208	-.3375	-.3395	-.3129	-.2654	-.1755	-.1554	-.1360	-.1328	-.1455
100.000						-.3206	-.3347	-.3485	-.3409	-.3264	-.2349	-.2046	- 1516	-.1765	-.1404
110.000						-.3448	-.3555	-.3719	-.3766	-.3852	-.3473	-.2202	-.1614	-.1743	-.1462
120.000						-.2818								.0000	
130.000						-.4399								-.2021	
140.000						-.5564								-.2282	
150.000						-.5060								-.2541	
160.000						-.4724								-.2704	
170.000						-.4658								-.2905	
180.000						-.3985	-.3525	-.3342	-.3048	-.2939	-.2828	-.2936	-.2888	-.2937	-.2817

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1121	-.1145	-.0955	-.0984	-.0930	-.1003	-.0844	-.0732	-.0447	-.0161	-.0045	-.0590	-.0878	-.0723	-.0920
100.000	-.1210	-.1281	-.1101	-.1101	-.1077	-.1206	-.1178	-.1052	-.0602	-.0592	-.0147	-.0613	-.0854	-.0531	-.0984
110.000	.0000	-.1211	-.1099	-.1223	-.1294	-.1357	-.1306	-.1209	-.1040	-.0723	-.0544	-.0735	-.0952	-.0687	.0000
120.000						-.1772								-.1032	
130.000						-.2012								-.0797	
140.000						-.2032								-.0675	
150.000						-.1763								-.0559	
160.000						-.1706								-.0481	
170.000						-.1496								-.0380	
180.000	-.2666	-.2456	-.2138	-.1965	-.1663	-.1270	-.1189	-.1084	-.0952	-.0832	-.0680	-.0628	-.0462	-.0233	.0736

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0091		
70.000							-.0240	-.0758	.0000
80.000							-.0453	-.1270	-.1396
90.000	-.1275	-.1143	-.1525	-.1931	.0000	.0000	-.0711	-.1396	-.1659
100.000	-.1444	-.1517	-.1587	-.0225	.0440	-.0258			
110.000	-.1179	-.1395	-.1053	.1553	.1345	.0380			
120.000						.1735			
130.000						.3066			
140.000						.1457			
150.000						.2111			
160.000						.3092			
170.000						.3738			
180.000	-.1184	.1520	.2123	.2384	.2845	.2930			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.251 ALPHA (7) = 4.392

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CF

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2650	.2050	.0447												
70.000	.2929	.2387	.1195												
80.000	.2418	.2558	.1831												
90.000			.2382	-.0235	-.2898	-.3311	-.3440	-.3418	-.3266	-.2944	-.1927	-.1481	-.1214	-.1224	-.1450
100.000						-.3313	-.3420	-.3563	-.3454	-.3321	-.2661	-.2069	-.1582	-.1810	-.1417
110.000						-.3465	-.3570	-.3754	-.3832	-.3943	-.3621	-.2650	-.1937	-.2036	-.1651
120.000						-.2925								.0000	
130.000						-.4601								-.2444	
140.000						-.5928								-.2633	
150.000						-.5444								-.2836	
160.000						-.5006								-.2901	
170.000						-.4960								-.3153	
180.000						-.4350	-.3852	-.3633	-.3338	-.3239	-.3159	-.3201	-.3202	-.3170	-.3019

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6840	.7100
PHI															
90.000	-.1165	-.1216	-.1059	-.1089	-.1040	-.1150	-.1003	-.0842	-.0606	-.0351	-.0285	-.0799	-.1239	-.0996	-.1182
100.000	-.1443	-.1474	-.1287	-.1196	-.1147	-.1330	-.1315	-.1279	-.0828	-.0860	-.0395	-.0841	-.1179	-.0830	-.1293
110.000	.0000	-.1394	-.1323	-.1367	-.1408	-.1555	-.1493	-.1451	-.1344	-.1056	-.0886	-.1011	-.1303	-.1030	.0000
120.000						-.2058								-.1141	
130.000						-.2292								-.1258	
140.000						-.2174								-.0632	
150.000						-.1833								-.0442	
160.000						-.1577								-.0285	
170.000						-.1227								-.0137	
180.000	-.2846	-.2603	-.2166	-.1724	-.1264	-.1029	-.0939	-.0839	-.0715	-.0687	-.0544	-.0449	-.0216	.0106	.0846

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0296		
70.000							-.0585	-.0928	.0000
80.000							-.0871	-.1375	-.1553
90.000	-.1584	-.1470	-.1746	-.2369	.0000	.0000	-.1092	-.1659	-.1695
100.000	-.1713	-.1849	-.1901	-.0626	.0188	-.0433			
110.000	-.1422	-.1648	-.1483	.1288	.1183	.0241			
120.000						.1727			
130.000						.2846			
140.000						.3917			
150.000						.1722			
160.000						.2528			
170.000						.2905			
180.000	-.1384	.1439	.1784	.2124	.2520	.2875			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (2) = 1.251 ALPHA (8) = 6.520

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2283	.1659	-.0157												
70.000	.2398	.1899	.0633												
80.000	.1882	.1821	.1490												
90.000			.2132	-.0252	-.2909	-.3322	-.3426	-.3366	-.3128	-.2549	-.1572	-.1310	-.1089	-.1119	-.1505
100.000						-.3330	-.3431	-.3491	-.3276	-.3034	-.2262	-.1887	-.1539	-.1854	-.1571
110.000						-.3456	-.3567	-.3767	-.3746	-.3765	-.3356	-.2369	-.2017	-.2269	-.1941
120.000						-.3003								.0000	
130.000						-.4735								-.2659	
140.000						-.6218								-.2667	
150.000						-.5860								-.2796	
160.000						-.5323								-.3020	
170.000						-.5289								-.3260	
180.000						-.4735	-.4203	-.3949	-.3608	-.3530	-.3404	-.3455	-.3380	-.3348	-.3079

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1224	-.1375	-.1241	-.1300	-.1310	-.1407	-.1278	-.1125	-.0837	-.0576	-.0529	-.0976	-.0986	-.1064	-.1358
100.000	-.1588	-.1727	-.1602	-.1513	-.1429	-.1578	-.1577	-.1503	-.1056	-.1195	-.0647	-.1052	-.1004	-.0955	-.1484
110.000	.0000	-.1774	-.1707	-.1691	-.1727	-.1922	-.1827	-.1760	-.1637	-.1451	-.1228	-.1323	-.1242	-.1175	.0000
120.000						-.2533								-.1345	
130.000						-.2627								-.0900	
140.000						-.2277								-.0591	
150.000						-.1665								-.0340	
160.000						-.1247								-.0169	
170.000						-.0968								-.0008	
180.000	-.2841	-.2430	-.1723	-.1249	-.1012	-.0816	-.0764	-.0876	-.0690	-.0623	-.0466	-.0340	-.0052	.0133	.0675

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0581		
70.000							-.0975	-.0962	.0000
80.000							-.1335	-.1443	-.1664
90.000	-.1745	-.1884	-.2095	-.2797	.0000	.0000	-.1361	-.1943	-.1790
100.000	-.1955	-.2171	-.2238	-.1085	-.0120	-.0619			
110.000	-.1683	-.2090	-.1811	.0945	.0929	.0111			
120.000						.1689			
130.000						.2602			
140.000						.0644			
150.000						.1598			
160.000						.2027			
170.000						.2033			
180.000	-.1624	.1074	.1794	.2145	.2475	.3188			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (FEB020)

MACH (2) = 1.250 ALPHA (9) = 8.888

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1951	.1313	-.0873												
70.000	.1952	.1437	-.0026												
80.000	.1453	.1347	.0793												
90.000			.1794	-.0268	-.2886	-.3290	-.3248	-.3105	-.2690	-.1628	-.1055	-.1057	-.1033	-.1072	-.1457
100.000						-.3285	-.3286	-.3315	-.3024	-.2439	-.1561	-.1597	-.1467	-.1823	-.1650
110.000						-.3409	-.3446	-.3629	-.3571	-.3511	-.2648	-.2053	-.2050	-.2414	-.2152
120.000						-.3963								.0000	
130.000						-.4813								-.3083	
140.000						-.6395								-.2711	
150.000						-.6164								-.2764	
160.000						-.5506								-.3012	
170.000						-.5578								-.3113	
180.000						-.5099	-.4440	-.4153	-.3838	-.3704	-.3617	-.3630	-.3533	-.3464	-.2945

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.673	.6	.7130
PHI															
90.000	-.1243	-.1427	-.1437	-.1581	-.1622	-.1737	-.1585	-.1429	-.1125	-.0745	-.0283	-.0869	-.1079	-.1321	-.1612
100.000	-.1736	-.1967	-.1923	-.1912	-.1822	-.2008	-.1905	-.1779	-.1247	-.1330	-.0591	-.1015	-.1127	-.1215	-.1761
110.000	.0000	-.2271	-.2215	-.2293	-.2252	-.2294	-.2158	-.2113	-.1934	-.1725	-.1314	-.1396	-.1369	-.1493	.0000
120.000						-.3038								-.1578	
130.000						-.2753								-.0921	
140.000						-.2094								-.0582	
150.000						-.1406								-.0446	
160.000						-.1032								-.0254	
170.000						-.0863								-.0125	
180.000	-.2423	-.1635	-.1183	-.0974	-.0854	-.0752	-.0766	-.1077	-.0671	-.0575	-.0382	-.0221	-.0133	.0075	.0459

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0922		
70.000							-.1305	-.1043	.0000
80.000							-.1613	-.1726	-.1865
90.000	-.1986	-.2183	-.2372	-.2977	.0000	.0000	-.1477	-.2301	-.1999
100.000	-.2160	-.2473	-.2527	-.1164	-.0567	-.0713			
110.000	-.1952	-.2307	-.1283	.0524	.0527	.0028			
120.000						.1805			
130.000						.2507			
140.000						.0551			
150.000						.1757			
160.000						.2065			
170.000						.1078			
180.000	-.1945	.1003	.1807	.2252	.2735	.3695			

DATE 24 MAR 76 TABULATED SOURCE DATA - IA29/OA83

AMES 66-65G PRESSURE VENTING - INTEG. VEHICLE (REB021) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 6.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.250

MACH (1) = 1.755 ALPHA (1) = -8.398

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2154	.2907	.1684												
70.000	.2184	.2432	.2734												
80.000	.2717	.2455	.3186												
90.000			.2909	.0760	-.0137	-.1592	-.1667	-.1486	-.1552	-.2156	-.2099	-.1869	-.1537	-.1308	-.0862
100.000						-.1592	-.1653	-.1791	-.1895	-.1967	-.1837	-.1711	-.1525	-.1531	-.1280
110.000						-.2420	-.2386	-.2407	-.2461	-.2139	-.1705	-.1563	-.1488	-.1605	-.1766
120.000						-.1310								.0000	
130.000						-.1290								-.0799	
140.000						-.1250								-.0473	
150.000						-.1135								-.0116	
160.000						-.1109								.0133	
170.000						-.0873								.0325	
180.000						-.0661	-.0235	-.0094	.0084	.0314	.0467	.0394	.0301	.0420	.0377

X/L	.4500	.4680	.4860	.5050	.5240	.5450	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0382	-.0073	.0188	.0254	.0297	.0242	.0285	.0248	.0291	.0323	.0519	.0476	.0343	.0268	.0497
100.000	-.0974	-.0585	-.0304	-.0133	-.0007	.0122	.0274	.0118	.0077	-.0077	.0100	.0016	-.0057	-.0140	-.0129
110.000	.0000	-.1912	-.1952	-.1875	-.1781	-.1537	-.1326	-.0624	-.0854	-.0662	-.0436	-.0302	-.0159	-.0043	.0000
120.000						-.1486								-.0075	
130.000						-.1183								-.0503	
140.000						-.0816								-.0638	
150.000						-.0555								-.0678	
160.000						-.0356								-.0450	
170.000						-.0179								-.0279	
180.000	.0351	.0239	.0213	.0090	.0013	-.0022	-.0121	-.0473	-.0118	-.0141	-.0002	-.0057	-.0072	-.0086	.0080

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1284		
70.000							.0922	.0673	.0000
80.000							.0725	.0056	-.0256
90.000	.0237	-.0179	-.0173	.0186	.0000	.0000	.0353	-.0433	-.0568
100.000	.0030	-.0178	-.0191	.0591	.0626	.0640			
110.000	-.0115	-.0287	.0157	.1021	.1051	.0583			
120.000						-.0532			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB321)

MACH (1) = 1.755 ALPHA (1) = -8.398

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.1733			
140.000						.4588			
150.000						.4651			
160.000						.3853			
170.000						.3037			
180.000	-.0195	-.0167	-.0029	.2621	.3684	.5338			

MACH (1) = 1.749 ALPHA (2) = -8.266

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
60.000	.1813	.2601	.1253												
70.000	.1988	.2299	.2187												
80.000	.2397	.2290	.2795												
90.000			.2802	.0721	-.0643	-.1659	-.1786	-.1648	-.1720	-.2271	-.2253	-.2087	-.1774	-.1569	-.1146
100.000						-.1659	-.1775	-.1884	-.2007	-.2119	-.2053	-.1935	-.1700	-.1706	-.1455
110.000						-.2374	-.2397	-.2511	-.2529	-.2248	-.1881	-.1666	-.1643	-.1680	-.1746
120.000						-.1438								.0000	
130.000						-.1527								-.0944	
140.000						-.1472								-.0724	
150.000						-.1343								-.0410	
160.000						-.1320								-.0147	
170.000						-.1203								.0013	
180.000						-.0982	-.0653	-.0493	-.0321	-.0137	.0049	.0124	.0107	.0138	.0118

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.0895	-.0427	-.0187	-.0079	-.0027	-.0027	.0012	.0030	.0068	.0175	.0250	.0256	.0132	.0051	.0214
100.000	-.1198	-.0883	-.0626	-.0407	-.0284	-.0250	-.0084	-.0115	-.0092	-.0171	-.0245	-.0260	-.0124	-.0114	-.0251
110.000	.0000	-.1889	-.1924	-.1861	-.1790	-.1741	-.1589	-.1005	-.1144	-.0947	-.0783	-.0629	-.0406	-.0117	.0000
120.000						-.1656								-.0947	
130.000						-.1365								-.0783	
140.000						-.1043								-.1175	
150.000						-.0755								-.0345	
160.000						-.0618								-.0216	
170.000						-.0453								-.0044	
180.000	-.0004	-.0053	-.0104	-.0238	-.0351	-.0328	-.0386	-.0749	-.0395	-.0406	-.0330	-.0391	-.0371	-.0331	-.0171

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 60-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.749 ALPHA (2) = -6.266

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7830	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0782		
70.000							.0531	.0372	.0000
80.000							.0432	-.0149	-.0427
90.000	-.0079	-.0425	-.0403	-.0079	.0000	.0000	.0195	-.0589	-.0856
100.000	-.0182	-.0425	-.0348	.0359	.0379	.0533			
110.000	-.0229	-.0425	-.0068	.0818	.0776	.0320			
120.000						-.0631			
130.000						.1577			
140.000						.4090			
150.000						.3992			
160.000						.3156			
170.000						.2462			
180.000	-.0431	-.0375	-.0298	.2165	.3096	.4511			

MACH (1) = 1.749 ALPHA (3) = -4.132

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1891	.2497	.0941												
70.000	.1791	.2187	.1754												
80.000	.2150	.2216	.2319												
90.000			.2578	.0675	-.0797	-.1734	-.1873	-.1793	-.1856	-.2384	-.2378	-.2261	-.2009	-.1810	-.1450
100.000						-.1732	-.1893	-.2017	-.2140	-.2269	-.2258	-.2157	-.1878	-.1801	-.1653
110.000						-.2362	-.2416	-.2548	-.2576	-.2416	-.2063	-.1821	-.1753	-.1798	-.1838
120.000						-.1562								.0000	
130.000						-.1729								-.1105	
140.000						-.1700								-.0937	
150.000						-.1562								-.0643	
160.000						-.1539								-.0438	
170.000						-.1471								-.0276	
180.000						-.1270	-.0984	-.0800	-.0683	-.0430	-.0310	-.0190	-.0161	-.0201	-.0187

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1011	-.0781	-.0484	-.0410	-.0327	-.0293	-.0249	-.0211	-.0167	-.0089	.0068	.0056	-.0031	-.0098	.0166
100.000	-.1468	-.1203	-.0903	-.0864	-.0535	-.0484	-.0336	-.0321	-.0298	-.0365	-.0165	-.0179	-.0199	-.0170	-.0309
110.000	.0000	-.1916	-.1936	-.1833	-.1748	-.1739	-.1648	-.1175	-.1361	-.1189	-.1036	-.0893	-.0742	-.0658	.0000
120.000						-.1819								-.0551	
130.000						-.1538								-.0963	
140.000						-.1256								-.1285	
150.000						-.0983								-.1137	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.749 ALPHA (3) = -4.132

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4600	.4800	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0852								-.0963	
170.000						-.0725								-.0844	
180.000	-.0256	-.0361	-.0393	-.0532	-.0550	-.0632	-.0667	-.0882	-.0661	-.0670	-.0612	-.0667	-.0670	-.0676	-.0337

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	9400
PHI									
60.000							.0442		
70.000							.0270	.0092	.0000
80.000							. 226	-.0321	-.0599
90.000	-.0520	-.0841	-.0619	-.0298	.0000	.0000	.0092	-.0720	-.0995
100.000	-.0379	-.0638	-.0547	.0208	.0216	.0314			
110.000	-.0342	-.0569	-.0221	.0655	.0590	.0150			
120.000						-.0687			
130.000						.1448			
140.000						.3686			
150.000						.3374			
160.000						.2519			
170.000						.1962			
180.000	-.0599	-.0503	-.0497	.1764	.2552	.3642			

MACH (1) = 1.751 ALPHA (4) = -2.039

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1397	.2371	.0892												
90.000	.1626	.2095	.1445												
100.000	.1918	.2152	.1962												
110.000			.2238	.0597	-.0765	-.1799	-.1933	-.1902	-.1962	-.2453	-.2473	-.2421	-.2158	-.2030	-.1750
120.000						-.1796	-.1962	-.2085	-.2226	-.2367	-.2341	-.2334	-.2056	-.2010	-.1807
130.000						-.2338	-.2410	-.2542	-.2608	-.2447	-.2163	-.1924	-.1664	-.1435	-.1913
140.000						-.1669								.0000	
150.000						-.1899								-.1276	
160.000						-.1896								-.1198	
170.000						-.1758								-.1064	
180.000						-.1724								-.1711	
						-.1704								-.1510	
						-.1497	-.1201	-.1026	-.0862	-.0653	-.0512	-.0448	-.0411	-.0443	-.0477

X/L	.4500	.4600	.4800	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.71 0

PHI

AMES 66-65G PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.751 ALPHA (4) = -2.059

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1365	-.1065	-.0751	-.0651	-.0551	-.0494	-.0445	-.0402	-.0317	-.0215	-.0087	-.0052	-.0169	-.0209	.0066
100.000	-.1693	-.1525	-.1205	-.0911	-.0760	-.0697	-.0506	-.0468	-.0454	-.0477	-.0291	-.0268	-.0276	-.0230	-.0369
110.000	.0000	-.1951	-.1974	-.1894	-.1726	-.1674	-.1600	-.1256	-.1422	-.1320	-.1157	-.1050	-.0884	-.0808	.0000
120.000						-.1948								-.0678	
130.000						-.1669								-.1032	
140.000						-.1390								-.1372	
150.000						-.1166								-.1323	
160.000						-.1053								-.1154	
170.000						-.0939								-.1070	
180.000	-.0563	-.0843	-.0620	-.0760	-.0797	-.0846	-.0905	-.1044	-.0913	-.0902	-.0843	-.0884	-.0881	-.0919	-.0538

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0198		
70.000							.0066	-.0113	.0000
80.000							.0066	-.0445	-.0727
90.000	-.0549	-.0801	-.0751	-.0424	.0000	.0000	.0014	-.0760	-.1077
100.000	-.0546	-.0793	-.0663	.0165	.0201	.0245			
110.000	-.0444	-.0665	-.0330	.0600	.0565	.0108			
120.000						-.0595			
130.000						.1402			
140.000						.3339			
150.000						.2917			
160.000						.2080			
170.000						.1582			
180.000	-.0860	-.0838	-.0516	.1436	.2083	.3202			

MACH (1) = 1.751 ALPHA (5) = .081

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1463	.2080	.0431												
70.000	.1471	.1948	.1085												
80.000	.1708	.1980	.1565												
90.000			.1948	.0560	-.0962	-.1869	-.2015	-.2021	-.2052	-.2343	-.2560	-.2511	-.2259	-.2128	-.1901
100.000						-.1883	-.2041	-.2169	-.2317	-.2474	-.2503	-.2437	-.2197	-.2120	-.1884
110.000						-.2328	-.2412	-.2563	-.2594	-.2480	-.2257	-.2055	-.2003	-.2038	-.2028
120.000						-.1795								.0000	
130.000						-.2080								-.1433	
140.000						-.2097								-.1413	
150.000						-.1966								-.1149	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.751 ALPHA (5) = .081

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
160.000						-.1920								-.0978	
170.000						-.1926								-.0814	
180.000						-.1715	-.1438	-.1179	-.1002	-.0868	-.0696	-.0720	-.0717	-.0734	-.[illegible]

X/L	.4500	.4680	.4860	.5050	.5240	.546'	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7190
PHI															
90.000	-.1868	-.1466	-.1109	-.0956	-.0825	-.0746	-.0655	-.0582	-.0470	-.0340	-.[illegible]	-.0158	-.0245	-.0323	-.[illegible]
100.000	-.1793	-.1699	-.1535	-.1245	-.1027	-.0839	-.0734	-.0643	-.0603	-.[illegible]	-.[illegible]	-.0325	-.0282	-.0282	-.0410
110.000	.0000	-.1966	-.1938	-.1875	-.1753	-.1620	-.1536	-.1195	-.1360	-.127[illegible]	-.1178	-.1071	-.0898	-.[illegible]	.[illegible]
120.000						-.2045								-.07	
130.000						-.1857								-.1	
140.000						-.1553								-.1464	
150.000						-.1357								-.1[illegible]	
160.000						-.1261								-.1372	
170.000						-.1169								-.127[illegible]	
180.000	-.0819	-.0862	-.0876	-.1010	-.1046	-.1[illegible]	-.1155	-.1135	-.1101	-.1163	-.1071	-.1097	-.[illegible]	-.1125	-.[illegible]

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9490
PHI									
60.000							-.0008		
70.000							-.0090	-.0[illegible]	.0000
80.000							-.0112	-.0574	-.0801
90.000	-.0781	-.0897	-.0888	-.0523	.0000	.0000	-.0[illegible]	-.0766	-.1[illegible]
100.000	-.0704	-.0891	-.0778	.0171	.0176	.0243			
110.000	-.0525	-.0721	-.0478	.0512	.0562	.0116			
120.000						-.0435			
130.000						.1358			
140.000						.3058			
150.000						.2410			
160.000						.1592			
170.000						.1225			
180.000	-.0841	-.0885	-.0303	.1121	.1638	.2565			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (YEB021)

MACH (1) = 1.751 ALPHA (6) = 2.158

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1625	.1797	.0240												
70.000	.1423	.1800	.0814												
80.000	.1517	.1943	.1223												
90.000			.1625	.0363	-.0905	-.1926	-.2044	-.2047	-.2090	-.2512	-.2505	-.2444	-.2292	-.2145	-.2000
100.000						-.1918	-.2078	-.2201	-.2338	-.2481	-.2523	-.2461	-.2219	-.2159	-.1938
110.000						-.2257	-.2355	-.2498	-.2495	-.2469	-.2366	-.2173	-.2079	-.2071	-.1991
120.000						-.1832								.0000	
130.000						-.2160								-.1586	
140.000						-.2200								-.1583	
150.000						-.2066								-.1381	
160.000						-.2015								-.1209	
170.000						-.2012								-.1109	
180.000						-.1829	-.1479	-.1325	-.1139	-.1056	-.0962	-.1014	-.0975	-.0998	-.1041

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6733	.6880	.7100
PHI															
90.000	-.1867	-.1817	-.1649	-.1405	-.1149	-.0976	-.0854	-.0747	-.0583	-.0429	-.0245	-.0242	-.0302	-.0378	-.0099
100.000	-.1655	-.1648	-.1617	-.1692	-.1442	-.1181	-.0900	-.0762	-.0724	-.0666	-.0433	-.0343	-.0328	-.0302	-.0148
110.000	.0000	-.1910	-.1907	-.1890	-.1853	-.1680	-.1342	-.1157	-.1753	-.1155	-.1002	-.0924	-.0800	-.0707	.0000
120.000						-.2015								-.0794	
130.000						-.1877								-.1065	
140.000						-.1606								-.1479	
150.000						-.1519								-.1563	
160.000						-.1461								-.1490	
170.000						-.1374								-.1412	
180.000	-.1090	-.1169	-.1178	-.1223	-.1288	-.1322	-.1363	-.1319	-.1363	-.1354	-.1282	-.1291	-.1288	-.1311	-.0860

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0178		
70.000							-.0213	-.0457	.0000
80.000							-.0257	-.0679	-.0920
90.000	-.0883	-.0848	-.0849	-.0802	.0000	.0000	-.0224	-.0824	-.1103
100.000	-.0758	-.0845	-.0819	-.0008	.0140	.0271			
110.000	-.0939	-.0787	-.0264	.0511	.0575	.0110			
120.000						-.0134			
130.000						.1448			
140.000						.2694			
150.000						.1971			
160.000						.1217			
170.000						.0948			
180.000	-.0577	-.0583	.0063	.0820	.1223	.2256			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RCB021)

MACH (1) = 1.751 ALPHA (7) = 4.262

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4070	.4310
PHI															
60.000	.1510	.1530	.0040												
70.000	.1338	.1676	.0575												
80.000	.1281	.1774	.0960												
90.000			.1392	.0140	-.1037	-.1968	-.2077	-.2108	-.2160	-.2501	-.2521	-.2509	-.2384	-.2284	-.2133
100.000						-.1976	-.2094	-.2217	-.2386	-.2509	-.2570	-.2549	-.2344	-.2290	-.2053
110.000						-.2240	-.2349	-.2504	-.2521	-.2561	-.2504	-.2321	-.2193	-.2190	-.2073
120.000						-.1844								.0000	
130.000						-.2234								-.1746	
140.000						-.2308								-.1749	
150.000						-.2122								-.1595	
160.000						-.2076								-.1580	
170.000						-.2085								-.1336	
180.000						-.1907	-.1653	-.1556	-.1424	-.1307	-.1278	-.1284	-.1299	-.1336	-.1318

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1991	-.1928	-.1740	-.1484	-.1207	-.0974	-.0881	-.0750	-.0585	-.0423	-.0260	-.0269	-.0344	-.0428	-.0065
100.000	-.1954	-.1939	-.1885	-.1729	-.1444	-.1122	-.0907	-.0759	-.0681	-.0562	-.0359	-.0298	-.0312	-.0344	-.0473
110.000	.0000	-.1956	-.1937	-.1899	-.1803	-.1566	-.1359	-.0768	-.1020	-.0895	-.0739	-.0634	-.0489	-.0469	.0000
120.000						-.1991								-.0701	
130.000						-.1945								-.0855	
140.000						-.1812								-.1185	
150.000						-.1658								-.1455	
160.000						-.1617								-.1551	
170.000						-.1548								-.1562	
180.000	-.1393	-.1435	-.1415	-.1487	-.1492	-.1527	-.1548	-.1298	-.1495	-.1484	-.1440	-.1455	-.1458	-.1504	-.0926

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0355		
70.000							-.0418	-.0618	.0000
80.000							-.0476	-.0879	-.1049
90.000	-.1058	-.1000	-.0771	-.0705	.0000	.0000	-.0399	-.0948	-.1211
100.000	-.0856	-.0991	-.0845	-.0266	.0021	.0150			
110.000	-.0669	-.0801	-.0531	.0523	.0748	.0126			
120.000						.0276			
130.000						.1615			
140.000						.2343			
150.000						.1451			
160.000						.0911			
170.000						.0742			
180.000	-.0572	-.0567	.0312	.0586	.0895	.1819			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.751 ALPHA (8) = 6.355

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0959	.1244	-.0185												
70.000	.0836	.1315	.0318												
80.000	.0911	.1419	.0703												
90.000			.1143	.0114	-.0231	-.2006	-.2126	-.2209	-.2284	-.2597	-.2588	-.2579	-.2493	-.2436	-.2330
100.000						-.1997	-.2117	-.2246	-.2419	-.2579	-.2671	-.2717	-.2550	-.2436	-.2173
110.000						-.2230	-.2361	-.2502	-.2548	-.2643	-.2654	-.2527	-.2376	-.2327	-.2167
120.000						-.1899								.0000	
130.000						-.2345								-.1888	
140.000						-.2462								-.1865	
150.000						-.2302								-.1862	
160.000						-.2253								-.1665	
170.000						-.2293								-.1591	
180.000						-.2138	-.1948	-.1836	-.1712	-.1609	-.1528	-.1528	-.1551	-.1551	-.1554

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.2147	-.1940	-.1534	-.1257	-.1083	-.0900	-.0808	-.0692	-.0506	-.0349	-.0244	-.0276	-.0395	-.0468	-.0170
100.000	-.2095	-.2040	-.1842	-.1463	-.1148	-.0943	-.0806	-.0672	-.0578	-.0483	-.0296	-.0282	-.0299	-.0331	-.0483
110.000	.0000	-.2031	-.1997	-.1817	-.1485	-.1180	-.1062	-.0859	-.0779	-.0646	-.0459	-.0369	-.0282	-.0282	.0000
120.000						-.1922								-.0555	
130.000						-.1995								-.0668	
140.000						-.1920								-.0869	
150.000						-.1798								-.1070	
160.000						-.1742								-.1360	
170.000						-.1696								-.1576	
180.000	-.1611	-.1643	-.1627	-.1648	-.1637	-.1667	-.1629	-.1184	-.1614	-.1611	-.1587	-.1616	-.1634	-.1651	-.0818

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0439		
70.000							-.0648	-.0769	.0000
80.000							-.0651	-.1000	-.1257
90.000	-.1114	-.0992	-.0699	-.0840	.0000	.0000	-.0554	-.1089	-.1336
100.000	-.0925	-.0986	-.0865	-.0320	.0040	-.0017			
110.000	-.0710	-.0809	-.0629	.0326	.0799	.0021			
120.000						.0553			
130.000						.1989			
140.000						.2079			
150.000						.1223			
160.000						.0952			
170.000						.1045			
180.000	-.0574	-.0607	.0318	.0851	.0968	.1656			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (1) = 1.751 ALPHA (9) = 8.517

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0841	.1036	-.0354												
70.000	.0825	.1148	.0134												
80.000	.0817	.1194	.0558												
90.000			.0979	.0080	-.0557	-.2058	-.2219	-.2354	-.2429	-.2690	-.2696	-.2681	-.2632	-.2629	-.2538
100.000						-.2055	-.2193	-.2334	-.2512	-.2684	-.2782	-.2859	-.2749	-.2629	-.2401
110.000						-.2236	-.2386	-.2532	-.2610	-.2759	-.2816	-.2760	-.2586	-.2523	-.2321
120.000						-.1998								.0000	
130.000						-.2512								-.1995	
140.000						-.2687								-.2024	
150.000						-.2506								-.2018	
160.000						-.2469								-.2018	
170.000						-.2494								-.1810	
180.000						-.2374	-.2231	-.2127	-.1995	-.1866	-.1783	-.1801	-.1764	-.1773	-.1761

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2209	-.1713	-.1270	-.1070	-.0968	-.0811	-.0735	-.0613	-.0488	-.0325	-.0220	-.0267	-.0392	-.0496	-.0173
100.000	-.2275	-.2032	-.1527	-.1119	-.0945	-.0856	-.0735	-.0674	-.0511	-.0453	-.0276	-.0244	-.0284	-.0354	-.0514
110.000	.0000	-.2149	-.1927	-.1427	-.1085	-.0922	-.0816	-.0677	-.0592	-.0476	-.0325	-.0267	-.0238	-.0252	.0000
120.000						-.1496								-.0464	
130.000						-.2002								-.0578	
140.000						-.2011								-.0702	
150.000						-.1900								-.0839	
160.000						-.1848								-.1051	
170.000						-.1784								-.1301	
180.000	-.1781	-.1801	-.1758	-.1795	-.1773	-.1741	-.1549	-.0712	-.1723	-.1723	-.1714	-.1731	-.1662	-.1509	-.0616

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0565		
70.000							-.0810	-.0950	.0000
80.000							-.0835	-.1201	-.1336
90.000	-.0882	-.0868	-.0691	-.0929	.0000	.0000	-.0708	-.1226	-.1493
100.000	-.0846	-.0871	-.0918	-.0361	.0015	-.0152			
110.000	-.0716	-.0829	-.0680	.0423	.0607	-.0133			
120.000						.0705			
130.000						.2277			
140.000						.2264			
150.000						.1301			
160.000						.1208			
170.000						.1321			
180.000	-.0821	-.0669	.0263	.0546	.0768	.0880			

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AMES 66-63C PRESSURE VENTING - INTEG. VEHICLE (PE8021)

MACH (2) = 2.013 ALPHA (1) = -7.925

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2178	.2038	.1238												
70.000	.2284	.1943	.1578												
80.000	.2549	.1870	.1633												
90.000			.1554	.0667	.0015	-.0523	-.0735	-.0796	-.0948	-.1352	-.1392	-.1374	-.1217	-.1109	-.0924
100.000						-.0317	-.0541	-.0672	-.0909	-.1112	-.1191	-.1185	-.1057	-.1075	-.1009
110.000						-.1671	-.1699	-.1765	-.1778	-.1638	-.1352	-.1063	-.0937	-.0955	-.1021
120.000						-.0863								.0000	
130.000						-.0921								-.0589	
140.000						-.0918								-.0450	
150.000						-.0787								-.0142	
160.000						-.0659								.0061	
170.000						-.0602								.0185	
180.000						-.0441	-.0085	.0125	.0161	.0216	.0243	.0228	.0234	.0173	.0213

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0695	-.0538	-.0320	-.0157	-.0036	-.0015	.0049	.0027	.0149	.0222	.0389	.0447	.0392	.0386	.0258
100.000	-.0903	-.0825	-.0668	-.0447	-.0293	-.0230	-.0176	.0024	-.0028	-.0087	.0049	.0076	.0076	.0088	-.0014
110.000	.0000	-.1163	-.1218	-.1260	-.1215	-.1206	-.1182	-.1068	-.0911	-.0763	-.0609	-.0449	-.0296	-.0213	.0000
120.000						-.0937								-.0455	
130.000						-.0646								-.0858	
140.000						-.0366								-.0637	
150.000						-.0136								-.0391	
160.000						-.0111								-.0299	
170.000						-.0031								-.0093	
180.000	.0203	.0182	.0225	.0115	.0070	.0042	-.0059	-.0019	-.0013	-.0022	.0042	.0045	.0067	.0043	.0400

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0723		
70.000							.0766	.0590	.0000
80.000							.0830	.0220	-.0038
90.000	.0137	.0012	-.0043	-.0031	.0000	.0000	.0706	-.0116	-.0362
100.000	.0145	-.0023	-.0046	.0073	.0365	.0662			
110.000	-.0020	-.0119	.0200	.0834	.0902	.0538			
120.000						-.0148			
130.000						.1952			
140.000						.4347			
150.000						.4442			
160.000						.3265			
170.000						.2623			
180.000	-.0136	-.0052	.0056	.1085	.3196	.5023			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.018 ALPHA (2) = -5.738

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4000	.4310
PHI															
60.000	.2013	.1794	.1074												
70.000	.2098	.1730	.1362												
80.000	.2213	.1712	.1458												
90.000			.1390	.0834	.0049	-.0679	-.0859	-.0932	-.1072	-.1430	-.1479	-.1476	-.1330	-.1216	-.1058
100.000						-.0688	-.0686	-.0892	-.1096	-.1266	-.1342	-.1369	-.1222	-.1216	-.1065
110.000						-.1496	-.1576	-.1661	-.1585	-.1600	-.1391	-.1167	-.1071	-.1077	-.1089
120.000						-.0977								.0000	
130.000						-.1083								-.0597	
140.000						-.1125								-.0579	
150.000						-.1001								-.0364	
160.000						-.0892								-.01..	
170.000						-.0849								-.0111	
180.000						-.0712	-.0403	-.0239	-.0148	-.0075	-.0051	-.0065	-.0053	-.0 90	-.0065

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0874	-.0764	-.0561	-.0410	-.0295	-.0280	-.0209	-.0162	-.0089	-.0030	.0120	.0193	.0159	.0156	.0156
100.000	-.0983	-.0948	-.0839	-.0867	-.0498	-.0431	-.0288	-.0319	-.0248	-.0264	-.0138	-.0073	-.0049	-.0027	-.0038
110.000	.0000	-.1172	-.1258	-.1226	-.1223	-.1190	-.1168	-.0992	-.1042	-.0940	-.0827	-.0689	-.0566	-.0476	.0000
120.000						-.1099								-.0664	
130.000						-.0786								-.0509	
140.000						-.0541								-.0627	
150.000						-.0328								-.0606	
160.000						-.0267								-.0455	
170.000						-.0236								-.0344	
180.000	-.0102	-.0098	-.0087	-.0147	-.0186	-.0215	-.0233	-.0362	-.0236	-.0221	-.0197	-.0215	-.0199	-.02 6	.0043

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0389		
70.000							.0447	.0245	.0000
80.000							.0505	-.0001	-.0264
90.000	.0037	-.0218	-.0274	-.0250	.0000	.0000	.0427	-.0243	-.0692
100.000	-.0019	-.0218	-.0271	-.0054	.0319	.0383			
110.000	-.0042	-.0253	-.0112	.0564	.0644	.0285			
120.000						-.0258			
130.000						.1737			
140.000						.3886			
150.000						.3843			
160.000						.2746			
170.000						.2168			
180.000	-.0315	-.0323	-.0194	.0849	.2663	.4227			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.19 ALPHA (3) = -3.678

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1815	.1527	.0973												
70.000	.1966	.1524	.1158												
80.000	.2084	.1558	.1188												
90.000			.1203	.0916	-.0129	-.0839	-.0966	-.1069	-.1181	-.1507	-.1559	-.1571	-.1442	-.1346	-.1214
100.000						-.0857	-.0924	-.1081	-.1241	-.1396	-.1492	-.1529	-.1385	-.1375	-.1208
110.000						-.1405	-.1471	-.1607	-.1650	-.1613	-.1471	-.1298	-.1205	-.1214	-.1211
120.000						-.1105								.0000	
130.000						-.1269								-.0708	
140.000						-.1329								-.0711	
150.000						-.1226								-.0588	
160.000						-.1124								-.0597	
170.000						-.1108								-.0581	
180.000						-.0981	-.0679	-.0537	-.0455	-.0355	-.0313	-.0311	-.0329	-.0362	-.0353

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1048	-.0934	-.0781	-.0651	-.0540	-.0507	-.0443	-.0401	-.0351	-.0250	-.0082	.0004	-.0020	-.0033	-.0028
100.000	-.1093	-.1042	-.0979	-.0847	-.0708	-.0633	-.0470	-.0424	-.0473	-.0483	-.0314	-.0238	-.0207	-.0164	-.0235
110.000	.0000	-.1178	-.1217	-.1223	-.1220	-.1190	-.1166	-.1132	-.1107	-.1052	-.0961	-.0857	-.0756	-.0694	.0000
120.000						-.1193								-.0811	
130.000						-.0924								-.1102	
140.000						-.0703								-.0973	
150.000						-.0532								-.0774	
160.000						-.0464								-.0639	
170.000						-.0421								-.0535	
180.000	-.0335	-.0335	-.0311	-.0368	-.0386	-.0391	-.0440	-.0700	-.0440	-.0449	-.0379	-.0422	-.0397	-.0416	-.0130

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0144		
70.000							.0184	.0000	.0000
80.000							.0239	-.0177	-.0447
90.000	-.0200	-.0439	-.0480	-.0433	.0000	.0000	.0213	-.0371	-.0772
100.000	-.0247	-.0433	-.0489	-.0136	.0161	.0202			
110.000	-.0215	-.0410	-.0314	.0335	.0467	.0115			
120.000						-.0310			
130.000						.1593			
140.000						.3511			
150.000						.3364			
160.000						.2345			
170.000						.1813			
180.000	-.0308	-.0312	-.0433	.0851	.2250	.3623			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.019 ALPHA (4) = -1.572

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1527	.1217	.0855												
70.000	.1708	.1271	.1078												
80.000	.1820	.1313	.1066												
90.000			.0994	.1024	-.0338	-.0932	-.1058	-.1199	-.1299	-.1597	-.1645	-.1660	-.1573	-.1489	-.1369
100.000						-.0935	-.1085	-.1229	-.1380	-.1524	-.1618	-.1663	-.1552	-.1513	-.1315
110.000						-.1335	-.1461	-.1609	-.1657	-.1657	-.1582	-.1447	-.1357	-.1339	-.1318
120.000						-.1130								.0000	
130.000						-.1401								-.0863	
140.000						-.1492								-.0848	
150.000						-.1404								-.0717	
160.000						-.1341								-.0663	
170.000						-.1323								-.0610	
180.000						-.1212	-.0977	-.0844	-.0772	-.0688	-.0618	-.0597	-.0606	-.0612	-.0567

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.5840	.7100
PHI															
90.000	-.1220	-.1169	-.1058	-.0944	-.0813	-.0753	-.0681	-.0636	-.0559	-.0486	-.0318	-.0251	-.0267	-.0282	-.0041
100.000	-.1223	-.1193	-.1142	-.1067	-.0983	-.0881	-.0751	-.0764	-.0678	-.0660	-.0514	-.0459	-.0404	-.0349	-.0395
110.000	.0000	-.1277	-.1259	-.1262	-.1289	-.1277	-.1230	-.1169	-.1148	-.1111	-.1050	-.1010	-.0928	-.0873	.0000
120.000						-.1280								-.1013	
130.000						-.1075								-.1233	
140.000						-.0876								-.1126	
150.000						-.0733								-.0956	
160.000						-.0672								-.0831	
170.000						-.0623								-.0736	
180.000	-.0588	-.0573	-.0555	-.0588	-.0603	-.0608	-.0632	-.1154	-.0660	-.0666	-.0611	-.0642	-.0623	-.0620	-.0348

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0110		
70.000							-.0104	-.0260	.0000
80.000							-.0012	-.0381	-.0618
90.000	-.0421	-.0629	-.0632	-.0606	.0000	.0000	-.0058	-.0529	-.0863
100.000	-.0444	-.0624	-.0629	-.0180	.0051	.0000			
110.000	-.0395	-.0589	-.0427	.0164	.0266	-.0099			
120.000						-.0329			
130.000						.1433			
140.000						.3084			
150.000						.2843			
160.000						.1883			
170.000						.1436			
180.000	-.0873	-.0864	-.0606	.0564	.1782	.2889			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.021 ALPHA (5) = .337

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1301	.1022	.0859												
70.000	.1430	.1079	.0986												
80.000	.1368	.1133	.1040												
90.000			.1001	.0962	-.0160	-.1032	-.1134	-.1316	-.1415	-.1667	-.1727	-.1772	-.1699	-.1649	-.1535
100.000						-.1026	-.1190	-.1316	-.1475	-.1631	-.1727	-.1793	-.1717	-.1675	-.1482
110.000						-.1349	-.1487	-.1631	-.1685	-.1712	-.1694	-.1589	-.1517	-.1500	-.1452
120.000						-.1017								.0000	
130.000						-.1472								-.1023	
140.000						-.1637								-.0963	
150.000						-.1556								-.0856	
160.000						-.1511								-.0779	
170.000						-.1517								-.0779	
180.000						-.1412	-.1226	-.1116	-.1065	-.0978	-.0918	-.0889	-.0850	-.0808	-.0767

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1401	-.1327	-.1196	-.1071	-.0961	-.0916	-.0872	-.0829	-.0729	-.0635	-.0477	-.0438	-.0447	-.0459	-.0128
100.000	-.1374	-.1348	-.1295	-.1220	-.1116	-.1026	-.0896	-.0847	-.0802	-.0784	-.0635	-.0587	-.0532	-.0493	-.0538
110.000	.0000	-.1378	-.1369	-.1351	-.1348	-.1321	-.1269	-.1193	-.1136	-.1099	-.1041	-.1026	-.0950	-.0908	.0000
120.000						-.1390								-.1054	
130.000						-.1205								-.1278	
140.000						-.1030								-.1217	
150.000						-.0899								-.1090	
160.000						-.0854								-.0981	
170.000						-.0829								-.0905	
180.000	-.0740	-.0787	-.0728	-.0770	-.0791	-.0805	-.0841	-.0929	-.0847	-.0823	-.0787	-.0790	-.0796	-.0808	-.0541

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0307		
70.000							-.0316	-.0442	.0000
80.000							-.0212	-.0548	-.0764
90.000	-.0585	-.0787	-.0798	-.0700	.0000	.0000	-.0218	-.0654	-.0947
100.000	-.0839	-.0761	-.0781	-.0244	.0002	-.0098			
110.000	-.0581	-.0703	-.0449	.0134	.0211	-.0178			
120.000						-.0253			
130.000						.1423			
140.000						.2777			
150.000						.2387			
160.000						.1460			
170.000						.1084			
180.000	-.0735	-.0784	-.0720	.0568	.1377	.2184			

AMES 60-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.021 ALPHA (6) = 2.855

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1104	.0924	.0488												
70.000	.1248	.0972	.0912												
80.000	.1365	.1026	.1038												
90.000			.0999	.0801	-.0034	-.1.26	-.1229	-.1403	-.1487	-.1685	-.1745	-.1787	-.1726	-.1696	-.1624
100.000						-.1114	-.1235	-.1364	-.1520	-.1685	-.1781	-.1856	-.1800	-.1782	-.1568
110.000						-.1345	-.1478	-.1613	-.1667	-.1736	-.1772	-.1741	-.1660	-.1636	-.1523
120.000						-.1024								.0000	
130.000						-.1510								-.1135	
140.000						-.1753								-.1144	
150.000						-.1690								-.1010	
160.000						-.1684								-.1001	
170.000						-.1675								-.1001	
180.000						-.1588	-.1445	-.1319	-.1274	-.1205	-.1121	-.1078	-.1028	-.1004	-.0920

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1484	-.1419	-.1353	-.1309	-.1252	-.1249	-.1196	-.1086	-.0959	-.0801	-.0637	-.0567	-.0552	-.0564	-.0148
100.000	-.1448	-.1398	-.1347	-.1308	-.1273	-.1246	-.1208	-.1208	-.1098	-.1004	-.0807	-.0713	-.0628	-.0579	-.0609
110.000	.0000	-.1386	-.1353	-.1335	-.1335	-.1344	-.1372	-.1332	-.1305	-.1232	-.1120	-.1023	-.0910	-.0874	.0000
120.000						-.1392								-.1211	
130.000						-.1275								-.1354	
140.000						-.1135								-.1290	
150.000						-.1013								-.1187	
160.000						-.0980								-.1132	
170.000						-.0959								-.1084	
180.000	-.0912	-.0897	-.0846	-.0888	-.0906	-.0937	-.0980	-.1323	-.1004	-.0998	-.0974	-.1011	-.1008	-.1020	-.0734

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0417		
70.000							-.0409	-.0538	.0000
80.000							-.0340	-.0630	-.0826
90.000	-.0788	-.0878	-.0870	-.0797	.0000	.0000	-.0340	-.0690	-.0949
100.000	-.0757	-.0878	-.0858	-.0383	-.0137	-.0150			
110.000	-.0870	-.0771	-.0563	.0017	.0140	-.0216			
120.000						-.0092			
130.000						.1491			
140.000						.2405			
150.000						.1962			
160.000						.1131			
170.000						.0866			
180.000	-.0771	-.0771	-.0783	.0435	.0986	.1674			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.022 ALPHA (7) = 4.828

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0808	.0705	.0372												
70.000	.0999	.0794	.0797												
80.000	.1115	.0855	.0963												
90.000			.1067	.0610	-.0231	-.1178	-.1309	-.1517	-.1597	-.1767	-.1823	-.1835	-.1789	-.1739	-.1739
100.000						-.1193	-.1286	-.1425	-.1603	-.1758	-.1877	-.1957	-.1910	-.1866	-.1662
110.000						-.1407	-.1511	-.1648	-.1696	-.1817	-.1892	-.1866	-.1798	-.1762	-.1606
120.000						-.1077								.0000	
130.000						-.1555								-.1228	
140.000						-.1846								-.1234	
150.000						-.1793								-.1234	
160.000						-.1822								-.1086	
170.000						-.1811								-.1057	
180.000						-.1733	-.1586	-.1511	-.1470	-.1401	-.1315	-.1269	-.1163	-.1125	-.1051

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1630	-.1559	-.1515	-.1453	-.1361	-.1302	-.1157	-.1037	-.0895	-.0730	-.0562	-.0529	-.0547	-.0574	-.0283
100.000	-.1541	-.1503	-.1482	-.1444	-.1396	-.1305	-.1172	-.1094	-.1001	-.0865	-.0689	-.0598	-.0553	-.0532	-.0612
110.000	.0000	-.1447	-.1426	-.1399	-.1420	-.1423	-.1379	-.1322	-.1235	-.1070	-.0938	-.0836	-.0731	-.0686	.0000
120.000						-.1429								-.1028	
130.000						-.1364								-.1293	
140.000						-.1241								-.1329	
150.000						-.1154								-.1263	
160.000						-.1124								-.1221	
170.000						-.1088								-.1179	
180.000	-.1039	-.1054	-.1045	-.1071	-.1095	-.1100	-.1106	-.1208	-.1124	-.1124	-.1098	-.1113	-.1110	-.1119	-.0867

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0513		
70.000							-.0524	-.0661	.0000
80.000							-.0490	-.0758	-.0931
90.000	-.0861	-.0878	-.0898	-.0832	.0000	.0000	-.0428	-.0775	-.1017
100.000	-.0810	-.0878	-.0898	-.0423	-.0126	-.0134			
110.000	-.0869	-.0781	-.0532	.0168	.0298	-.0174			
120.000						.0192			
130.000						.1738			
140.000						.2301			
150.000						.1656			
160.000						.0913			
170.000						.0695			
180.000	-.0895	-.0729	-.0575	.0384	.0704	.1425			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.015 ALPHA (8) = 6.905

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0415	.0602	.0213												
70.000	.0814	.0605	.0808												
80.000	.0774	.0805	.0777												
90.000			.0881	.0397	-.0418	-.1290	-.1455	-.1651	-.1719	-.1855	-.1894	-.1894	-.1886	-.1875	-.1904
100.000						-.1293	-.1387	-.1517	-.1695	-.1843	-.1950	-.2033	-.2016	-.1998	-.1845
110.000						-.1432	-.1553	-.1677	-.1754	-.1900	-.1991	-.2019	-.1981	-.2004	-.1766
120.000						-.1145								.0000	
130.000						-.1637								-.1385	
140.000						-.1968								-.1385	
150.000						-.1939								-.1345	
160.000						-.1977								-.1383	
170.000						-.1983								-.1232	
180.000						-.1918	-.1787	-.1740	-.1689	-.1618	-.1532	-.1468	-.1388	-.1335	-.1253

X/L	.4300	.4480	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1822	-.1765	-.1682	-.1553	-.1397	-.1244	-.1120	-.0997	-.0871	-.0739	-.0598	-.0592	-.0628	-.0649	-.0348
100.000	-.1733	-.1679	-.1647	-.1585	-.1494	-.1361	-.1120	-.1003	-.0907	-.0823	-.0670	-.0604	-.0574	-.0568	-.0659
110.000	.0000	-.1600	-.1570	-.1556	-.1547	-.1497	-.1423	-.1252	-.1078	-.0943	-.0826	-.0730	-.0655	-.0625	.0000
120.000						-.1515								-.0856	
130.000						-.1477								-.1036	
140.000						-.1402								-.1300	
150.000						-.1312								-.1306	
160.000						-.1288								-.1288	
170.000						-.1282								-.1261	
180.000	-.1261	-.1258	-.1244	-.1264	-.1282	-.1300	-.1318	-.1270	-.1297	-.1282	-.1207	-.1222	-.1216	-.1228	-.0953

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0585		
70.000							-.0701	-.0783	.0000
80.000							-.0656	-.0888	-.1042
90.000	-.0968	-.0979	-.0990	-.0933	.0000	.0000	-.0536	-.0869	-.1090
100.000	-.0913	-.0979	-.0990	-.0596	-.0288	-.0275			
110.000	-.0796	-.0852	-.0622	.0069	.0246	-.0286			
120.000						.0356			
130.000						.1952			
140.000						.2195			
150.000						.1399			
160.000						.0847			
170.000						.0720			
180.000	-.0768	-.0782	-.0571	.0139	.0435	.1377			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB021)

MACH (2) = 2.018 ALPHA (9) = 9.020

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0248	.0717	.0097												
70.000	.0367	.0813	.0486												
80.000	.0527	.0822	.0732												
90.000			.0928	.0237	-.0579	-.1405	-.1548	-.1761	-.1821	-.1924	-.1960	-.1986	-.1987	-.1964	-.2014
100.000						-.1405	-.1477	-.1613	-.1776	-.1912	-.2016	-.2102	-.2079	-.2097	-.1999
110.000						-.1447	-.1601	-.1735	-.1823	-.1978	-.2075	-.2105	-.2097	-.2094	-.1911
120.000						-.1192								.0000	
130.000						-.1720								-.1519	
140.000						-.2028								-.1525	
150.000						-.2001								-.1525	
160.000						-.2078								-.1383	
170.000						-.2087								-.1360	
180.000						-.2048	-.1942	-.1883	-.1832	-.1752	-.1681	-.1601	-.1534	-.1483	-.1436

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1982	-.1925	-.1760	-.1563	-.1339	-.1150	-.1051	-.0961	-.0829	-.0730	-.0595	-.0589	-.0640	-.0688	-.0340
100.000	-.1908	-.1869	-.1799	-.1660	-.1460	-.1215	-.1048	-.0958	-.0835	-.0763	-.0631	-.0586	-.0598	-.0598	-.0674
110.000	.0000	-.1748	-.1713	-.1690	-.1636	-.1445	-.1249	-.0979	-.0919	-.0811	-.0706	-.0634	-.0580	-.0574	.0000
120.000						-.1610								-.0736	
130.000						-.1558								-.0871	
140.000						-.1489								-.1090	
150.000						-.1426								-.1276	
160.000						-.1402								-.1336	
170.000						-.1414								-.1366	
180.000	-.1436	-.1439	-.1418	-.1424	-.1448	-.1426	-.1414	-.1090	-.1393	-.1348	-.1303	-.1336	-.1333	-.1354	-.1057

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0648		
70.000							-.0778	-.0889	.0000
80.000							-.0730	-.1011	-.1139
90.000	-.1023	-.1046	-.1017	-.0908	.0000	.0000	-.0625	-.0940	-.1179
100.000	-.0980	-.1040	-.1034	-.0614	-.0349	-.0381			
110.000	-.0843	-.0923	-.0689	-.0046	.0183	-.0358			
120.000						.0511			
130.000						.2118			
140.000						.2290			
150.000						.1334			
160.000						.1069			
170.000						.1066			
180.000	-.0748	-.0817	-.0714	.0071	.0483	.1520			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB022) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 6.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .602 ALPHA (1) = -8.507

SECTION (11)GEB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2734	-.2730	-.4115												
70.000	-.2580	-.3251	-.3708												
80.000	-.2192	-.4083	-.4118												
90.000			-.6265	-.5737	-.5019	-.3211	-.2333	-.1862	-.1481	-.1409	-.1093	-.1061	-.0736	-.0484	-.0618
100.000						-.3121	-.3047	-.2326	-.1701	-.1356	-.1365	-.1256	-.0815	-.1007	-.0949
110.000						-.6416	-.4191	-.2993	-.2124	-.1849	-.1496	-.1297	-.1182	-.1214	-.1083
120.000						-.3618								-.0991	
130.000						-.2804								-.1600	
140.000						-.2660								-.1447	
150.000						-.2282								-.1160	
160.000						-.2044								-.1010	
170.000						-.2275								-.0777	
180.000						-.2000	-.1541	-.1445	-.1317	-.1045	-.0753	-.0796	-.0589	-.0372	-.0350

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.8880	.7190
PHI															
90.000	-.0564	-.0528	-.0280	-.0111	-.0118	-.0140	.0244	.0164	.0103	-.0319	-.0393	-.0520	-.0913	-.0893	-.0915
100.000	-.0978	-.0988	-.0905	-.0828	-.0672	-.0784	-.0897	-.0920	-.0592	-.1144	-.1111	-.1533	-.1608	-.1283	-.1493
110.000	.0000	-.0781	-.0723	-.0736	-.0631	-.0567	-.0358	-.0335	-.0283	-.0274	-.0494	-.0471	-.0523	-.1666	.0000
120.000						-.1064								-.0802	
130.000						-.1099								-.1647	
140.000						-.1047								-.0614	
150.000						-.0566								-.0306	
160.000						-.0584								-.0148	
170.000						-.0326								-.0052	
180.000	-.0916	-.0414	-.0405	-.0376	-.0411	-.0161	-.0391	-.0264	-.0332	-.0404	-.0156	-.0166	.0273	-.0128	.1250

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0650		
70.000							-.1032	-.1065	.0000
80.000							-.1677	-.2117	-.1757
90.000	-.1308	-.1188	-.1474	-.1969	.0000	.0000	-.1871	-.2114	-.1822
100.000	-.1188	-.1121	-.1050	-.1213	-.1745	-.1831			
110.000	-.0540	-.0472	-.0521	-.1155	-.2284	-.2793			
120.000						-.6661			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1) = .802 ALPHA (1) = -8.307

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.0256			
140.000						-.1102			
150.000						.0734			
160.000						.0741			
170.000						-.0457			
180.000	.0930	.1155	.1910	.2411	.2936	.4438			

MACH (1) = .601 ALPHA (2) = -4.359

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2959	-.2659	-.3644												
70.000	-.3281	-.2708	-.3547												
80.000	-.2086	-.3341	-.3783												
90.000			-.5479	-.5453	-.4952	-.3166	-.2209	-.1695	-.1369	-.1402	-.1076	-.0998	-.0776	-.0792	-.0859
100.000						-.3121	-.2693	-.2144	-.1637	-.1[illegible]	-.1098	-.1088	-.1052	-.1087	-.0885
110.000						-.5511	-.3632	-.2615	-.1902	-.1369	-.1183	-.1100	-.1045	-.1190	-.0927
120.000						-.3560								.0000	
130.000						-.3160								-.1457	
140.000						-.2779								-.1450	
150.000						-.2585								-.1347	
160.000						-.2562								-.1331	
170.000						-.2727								-.1174	
180.000						-.2446	-.1824	-.1657	-.1518	-.1447	-.1124	-.1087	-.0914	-.0965	-.0891

Y/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0585	-.0398	-.0331	-.0193	-.0074	-.0247	-.0171	-.0191	-.0206	-.0498	-.0473	-.0764	-.1124	-.1117	-.1176
100.000	-.0731	-.0874	-.0881	-.0485	-.0304	-.0572	-.0839	-.0819	-.0528	-.1097	-.0771	-.1127	-.1386	-.1203	-.1498
110.000	.0000	-.0829	-.0378	-.0965	-.0491	-.0552	-.0541	-.0541	-.0806	-.0652	-.0807	-.0725	-.0784	-.0810	.0000
120.000						-.0777								-.0[illegible]	
130.000						-.1051								-.0738	
140.000						-.0989								-.0[illegible]3	
150.000						-.0750								-.0558	
160.000						-.0839								-.0215	
170.000						-.0655								-.0195	
180.000	-.0748	-.0703	-.0591	-.0595	-.0591	-.0833	-.0754	-.0796	-.0747	-.0711	-.0375	-.0382	-.0222	-.0055	.0675

Y/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1) = .600 ALPHA (2) = -4.359

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0714		
70.000							-.1141	-.1070	.0000
80.000							-.1540	-.1856	-.1438
90.000	-.1536	-.1498	-.1484	-.1870	.0000	.0000	-.1757	-.1900	-.1506
100.000	-.1424	-.1291	-.1362	-.1430	-.1818	-.1918			
110.000	-.0901	-.0845	-.0959	-.1189	-.2058	-.2810			
120.000						-.6152			
130.000						-.4749			
140.000						-.1215			
150.000						.0535			
160.000						.0449			
170.000						-.0772			
180.000	-.0547	.0787	.1228	.1767	.2534	.3909			

MACH (1) = .599 ALPHA (3) = -.262

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2556	-.2760	-.3501												
70.000	-.2093	-.2552	-.3540												
80.000	-.2054	-.3569	-.3773												
90.000			-.5039	-.5411	-.4965	-.3122	-.2237	-.1723	-.1373	-.1473	-.1189	-.0939	-.0829	-.0825	-.0900
100.000						-.3090	-.2691	-.2124	-.1632	-.1257	-.1023	-.1114	-.1041	-.1225	-.0887
110.000						-.5029	-.3442	-.2548	-.1836	-.1425	-.1208	-.1135	-.1041	-.1083	-.0829
120.000						-.3498								.0000	
130.000						-.3329								-.1383	
140.000						-.2980								-.1363	
150.000						-.2656								-.1370	
160.000						-.2637								-.1344	
170.000						-.2808								-.1296	
180.000						-.2695	-.1004	-.1891	-.1716	-.1480	-.1224	-.1125	-.1119	-.1041	-.0925

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0835	-.0505	-.0463	-.0270	-.0190	-.0408	-.0329	-.0365	-.0499	-.0699	-.0724	-.0973	-.1291	-.1350	-.1412
100.000	-.0771	-.0724	-.0721	-.0586	-.0437	-.0595	-.0683	-.0630	-.0542	-.1044	-.0760	-.1166	-.1376	-.1143	-.1568
110.000	.0000	-.0569	-.0553	-.0528	-.0528	-.0479	-.0594	-.0578	-.0702	-.0702	-.0763	-.0927	-.0920	-.0989	.0000
120.000						-.0734								-.0815	
130.000						-.1004								-.0753	
140.000						-.1037								-.0573	
150.000						-.0775								-.0514	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1) = .599 ALPHA (3) = -2.262

SECTION (1)ORB. FUSELAGE DEPENDEN, VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0903								-.0432	
170.000						-.0860								-.0245	
180.000	-.0914	-.0750	-.0763	-.0666	-.0640	-.0853	-.0978	-.0952	-.0899	-.0912	-.0625	-.0619	-.0347	-.0176	.0457

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0864		
70.000							-.1175	-.1104	.0000
80.000							-.1591	-.1669	-.1256
90.000	-.1717	-.1571	-.1565	-.1822	.0000	.0000	-.1675	-.1874	-.1386
100.000	-.1431	-.1279	-.1378	-.1447	-.1978	-.2067			
110.000	-.1074	-.0996	-.0974	-.1301	-.2160	-.2993			
120.000						-.5860			
130.000						-.4366			
140.000						-.1337			
150.000						.0340			
160.000						.0260			
170.000						-.0930			
180.000	-.0012	.0821	.1114	.1586	.2389	.3645			

MACH (1) = .599 ALPHA (4) = -.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0970	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2355	-.2572	-.3404												
70.000	-.2034	-.2423	-.3281												
80.000	-.1924	-.3349	-.3714												
90.000			-.4592	-.5304	-.4896	-.3116	-.2183	-.1801	-.1467	-.1571	-.1254	-.1089	-.0922	-.0777	-.0945
100.000						-.3057	-.2603	-.2095	-.1636	-.1309	-.1105	-.1111	-.0964	-.1125	-.0745
110.000						-.4715	-.3192	-.2441	-.1846	-.1354	-.1260	-.1048	-.0967	-.1093	-.0855
120.000						-.3420								.0000	
130.000						-.3394								-.1328	
140.000						-.3112								-.1279	
150.000						-.2811								-.1370	
160.000						-.2747								-.1299	
170.000						-.2928								-.1366	
180.000						-.2876	-.2244	-.1924	-.1833	-.1645	-.1293	-.1205	-.1186	-.1176	-.1067

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (1) = .599 ALPHA (4) = -.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0658	-.0545	-.0423	-.0378	-.0310	-.0500	-.0458	-.0490	-.0569	-.0910	-.1022	-.1291	-.1632	-.1651	-.1476
100.000	-.0845	-.0729	-.0745	-.0655	-.0432	-.0571	-.0684	-.0713	-.0605	-.1172	-.0865	-.1297	-.1455	-.1327	-.1523
110.000	.0000	-.0696	-.0622	-.0577	-.0555	-.0645	-.0658	-.0726	-.0815	-.0805	-.0861	-.1048	-.1130	-.1094	.0000
120.000						-.0732								-.0878	
130.000						-.0962								-.0773	
140.000						-.0982								-.0681	
150.000						-.0884								-.0681	
160.000						-.0949								-.0458	
170.000						-.0907								-.0462	
180.000	-.1034	-.0899	-.0925	-.0957	-.0857	-.0894	-.0966	-.1051	-.0982	-.1028	-.0789	-.0743	-.0566	-.0425	.0270

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0973		
70.000							-.1283	-.1200	.0000
80.000							-.1526	-.1759	-.1147
90.000	-.1883	-.1784	-.1616	-.1886	.0000	.0000	-.1665	-.1892	-.1457
100.000	-.1445	-.1222	-.1371	-.1504	-.2032	-.2029			
110.000	-.1066	-.1116	-.0980	-.1327	-.2227	-.2960			
120.000						-.5482			
130.000						-.4047			
140.000						-.1401			
150.000						.0182			
160.000						.0052			
170.000						-.1072			
180.000	-.0240	.0449	.0961	.1448	.2128	.3324			

MACH (1) = .600 ALPHA (5) = 1.990

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2358	-.2458	-.3317												
70.000	-.2002	-.2351	-.3217												
80.000	-.1747	-.3214	-.3408												
90.000			-.4504	-.5128	-.4921	-.3030	-.2260	-.1827	-.1594	-.1727	-.1307	-.1139	-.0779	-.0766	-.0959
100.000						-.2997	-.2625	-.2224	-.1740	-.1265	-.1087	-.1236	-.0946	-.1210	-.0869
110.000						-.4255	-.3181	-.2418	-.1837	-.1439	-.1181	-.1049	-.0875	-.0994	-.0811
120.000						-.3282								.0000	
130.000						-.3492								-.1165	
140.000						-.3191								-.1203	
150.000						-.2813								-.1306	

AMES 66-C30 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1) = .600 ALPHA (5) = 1.990

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2729								-.1274	
170.000						-.2901								-.1271	
180.000						-.2955	-.2344	-.2179	-.1921	-.1808	-.1484	-.1293	-.1274	-.1239	-.1052

X/L	.4500	.4630	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0618	-.0615	-.0624	-.0544	-.0486	-.0660	-.0438	-.0582	-.0732	-.1027	-.1246	-.1632	-.1998	-.1976	-.1751
100.000	-.0747	-.0766	-.0695	-.0624	-.0663	-.0756	-.0795	-.0746	-.0752	-.1224	-.1147	-.1517	-.1658	-.1625	-.1732
110.000	.0000	-.0698	-.0776	-.0772	-.0669	-.0869	-.0647	-.0719	-.0811	-.0870	-.1075	-.1239	-.1298	-.1341	.0000
120.000						-.0698								-.1036	
130.000						-.0955								-.0801	
140.000						-.0955								-.0673	
150.000						-.0716								-.0683	
160.000						-.0877								-.0588	
170.000						-.0975								-.0604	
180.000	-.1168	-.1071	- 1046	-.1036	-.0898	-.1017	-.1099	-.1070	-.1109	-.1060	-.0899	-.0882	-.0676	-.0503	.0203

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1059		
70.000							-.1322	-.1195	.0000
80.000							-.1583	-.1694	-.1257
90.000	-.2024	-.1723	-.1766	-.1881	.0000	.0000	-.1663	-.1741	-.1480
100.000	-.1506	-.1354	-.1276	-.1465	-.1810	-.2184			
110.000	-.1140	-.0947	-.0994	-.1121	-.2137	-.3036			
120.000						-.5215			
130.000						-.3764			
140.000						-.1465			
150.000						.0126			
160.000						-.0256			
170.000						-.1031			
180.000	-.0144	.0329	.0825	.1271	.1851	.3018			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (1) = .600 ALPHA (6) = 4.096

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2377	-.2571	-.3295												
70.000	-.1924	-.2293	-.3023												
80.000	-.1879	-.3026	-.3476												
90.000			-.4128	-.4978	-.4813	-.3046	-.2377	-.1934	-.1621	-.1608	-.1352	-.1259	-.0943	-.0343	-.1049
100.000						-.3075	-.2639	-.2189	-.1637	-.1378	-.1036	-.1255	-.1001	-.1145	-.0914
110.000						-.4135	-.3114	-.2477	-.1844	-.1385	-.1168	-.1007	-.0875	-.1107	-.0753
120.000						-.3217								.0000	
130.000						-.3472								-.0988	
140.000						-.3308								-.1184	
150.000						-.2887								-.1126	
160.000						-.2829								-.1293	
170.000						-.3036								-.1338	
180.000						-.3107	-.2458	-.2128	-.1957	-.1863	-.1469	-.1319	-.1364	-.1136	-.1165

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0737	-.0750	-.0660	-.0551	-.0531	-.0744	-.0568	-.0876	-.1017	-.1334	-.1547	-.1936	-.2322	-.2051	-.1999
100.000	-.0924	-.0872	-.0756	-.0654	-.0644	-.0801	-.0814	-.0909	-.0775	-.1396	-.1406	-.1714	-.1910	-.1868	-.1847
110.000	.0000	-.0789	-.0744	-.0657	-.0644	-.0862	-.0866	-.0768	-.0915	-.1020	-.1269	-.1445	-.1367	-.1452	.0000
120.000						-.0657								-.1079	
130.000						-.0951								-.0791	
140.000						-.0987								-.0569	
150.000						-.0837								-.0713	
160.000						-.0938								-.0624	
170.000						-.0873								-.0670	
180.000	-.1222	-.1097	-.1065	-.1103	-.0943	-.1046	-.1213	-.1279	-.1180	-.1187	-.1072	-.1050	-.0752	-.0539	.0047

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0928		
70.000							-.1369	-.1207	.0000
80.000							-.1499	-.1396	-.1226
90.000	-.2201	-.2081	-.1764	-.1903	.0000	.0000	-.1647	-.1678	-.1325
100.000	-.1646	-.1565	-.1494	-.1509	-.1956	-.2088			
110.000	-.1187	-.1150	-.1032	-.1122	-.1911	-.3005			
120.000						-.4809			
130.000						-.3479			
140.000						-.1455			
150.000						-.0172			
160.000						-.0529			
170.000						-.0931			
180.000	-.0223	.0333	.0795	.1161	.1606	.2597			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1) = .599 ALPHA (7) = 8.382

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2245	-.2174	-.3141												
70.000	-.1828	-.2102	-.2918												
80.000	-.1798	-.2614	-.3170												
90.000			-.3490	-.4778	-.4587	-.3063	-.2450	-.2027	-.1687	-.1891	-.1565	-.1426	-.1055	-.1003	-.1187
100.000						-.3105	-.2660	-.2221	-.1739	-.1490	-.1248	-.1480	-.1032	-.1399	-.1138
110.000						-.3510	-.2958	-.2473	-.1846	-.1561	-.1371	-.1048	-.0971	-.1322	-.0878
120.000						-.3206								.0000	
130.000						-.3908								-.1058	
140.000						-.3516								-.0894	
150.000						-.2944								-.1200	
160.000						-.2898								-.1155	
170.000						-.3031								-.1171	
180.000						-.3248	-.2560	-.2260	-.1888	-.1784	-.1636	-.1357	-.1309	-.1251	-.1171

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5930	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0862	-.0910	-.0926	-.0823	-.0900	-.1187	-.1007	-.1286	-.1469	-.1767	-.2122	-.2656	-.2764	-.2584	-.2284
100.000	-.0952	-.1052	-.1007	-.0897	-.0740	-.1129	-.1141	-.1233	-.1227	-.1925	-.1831	-.2224	-.2584	-.2296	-.2154
110.000	.0000	-.1071	-.0833	-.0842	-.0900	-.1087	-.1076	-.1155	-.1292	-.1227	-.1654	-.1811	-.1864	-.1854	.0000
120.000						-.0797								-.1156	
130.000						-.0853								-.1045	
140.000						-.0935								-.0983	
150.000						-.0751								-.0862	
160.000						-.0899								-.0753	
170.000						-.1037								-.0829	
180.000	-.1283	-.1241	-.1241	-.1241	-.1093	-.1135	-.1223	-.1256	-.1384	-.1325	-.1192	-.1163	-.0921	-.0852	-.0136

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0997		
70.000							-.1376	-.1137	.0000
80.000							-.1524	-.1599	-.1202
90.000	-.2464	-.2172	-.1753	-.1946	.0000	.0000	-.1543	-.1562	-.1298
100.000	-.1964	-.1691	-.1573	-.1542	-.1961	-.2247			
110.000	-.1440	-.1232	-.0940	-.1195	-.2011	-.3078			
120.000						-.4424			
130.000						-.2939			
140.000						-.1534			
150.000						-.0656			
160.000						-.0616			
170.000						-.0389			
180.000	-.0802	.0155	.0392	.0821	.1135	.1474			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .749 ALPHA (1) = -8.480

SECTION (1)ORP. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.350	.4310
PHI															
60.000	-.2664	-.3431	-.4793												
70.000	-.2284	-.3244	-.4469												
80.000	-.1957	-.4187	-.5163												
90.000			-.7308	-.6799	-.5423	-.3447	-.2538	-.1911	-.1337	-.1268	-.1013	-.1058	-.0732	-.0585	-.0658
100.000						-.3509	-.3021	-.2487	-.1707	-.1536	-.1249	-.1222	-.1074	-.1090	-.0911
110.000						-.6627	-.4364	-.3157	-.2158	-.1715	-.1530	-.1287	-.1106	-.1172	-.1018
120.000						-.4064								.0000	
130.000						-.3313								-.1604	
140.000						-.2919								-.1490	
150.000						-.2568								-.1447	
160.000						-.2300								-.1130	
170.000						-.2621								-.0746	
180.000						-.2209	-.1761	-.1557	-.1541	-.1262	-.0865	-.0780	-.0820	-.0663	-.0460

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0383	-.0444	-.0346	-.0204	-.0090	-.0074	.0188	.0164	.0118	-.0194	-.0313	-.0560	-.1010	-.1035	-.0994
100.000	-.0756	-.0898	-.0956	-.0842	-.0698	-.0602	-.0667	-.0642	-.0588	-.1025	-.0872	-.1222	-.1309	-.1125	-.1203
110.000	.0000	-.0839	-.0796	-.0631	-.0402	-.0460	-.0322	-.0275	-.0009	-.0110	-.0234	-.0340	-.0391	-.0359	.0000
120.000						-.0834								-.0655	
130.000						-.1023								-.0524	
140.000						-.0900								-.0400	
150.000						-.0566								-.0158	
160.000						-.0547								.0089	
170.000						-.0104								.0210	
180.000	-.0586	-.0567	-.0303	-.0490	-.0167	-.0311	-.0343	-.0227	-.0248	-.0191	-.0049	-.0036	.0124	.0333	.1209

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1062		
70.000							-.1612	-.1525	.0000
80.000							-.2173	-.2574	-.1882
90.000	-.0976	-.1120	-.1794	-.2082	.0000	.0000	-.2435	-.2353	- 1944
100.000	-.1074	-.0933	-.1084	-.1342	-.1982	-.2528			
110.000	-.0460	-.0365	-.0622	-.1151	-.2569	-.3526			
120.000						-.8017			
130.000						-.5548			
140.000						-.0722			
150.000						.1319			
160.000						.1220			
170.000						-.0159			
180.000	-.0560	.1470	.2100	.2601	.3447	.4937			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .752 ALPHA (2) = -4.232

SECTION (1)ORB FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2544	-.3088	-.4288												
70.000	-.2070	-.2960	-.4160												
80.000	-.1899	-.3427	-.4624												
90.000			-.6226	-.6341	-.5413	-.3360	-.2435	-.1872	-.1494	-.1438	-.1225	-.1102	-.0777	-.0708	-.0870
100.000						-.3349	-.2838	-.2291	-.1694	-.1382	-.1206	-.1233	-.0992	-.1031	-.0859
110.000						-.5658	-.3755	-.2776	-.1979	-.1544	-.1390	-.1180	-.1116	-.1074	-.0893
120.000						-.3728								.0000	
130.000						-.3339								-.1487	
140.000						-.3064								-.1429	
150.000						-.2755								-.1326	
160.000						-.2430								-.1299	
170.000						-.2635								-.1214	
180.000						-.2598	-.2115	-.1923	-.1811	-.1547	-.1185	-.1047	-.0978	-.1076	-.0904

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0533	-.0451	-.0430	-.0284	-.0181	-.0310	-.0086	-.0088	-.0205	-.0388	-.0539	-.0928	-.1252	-.1179	-.1206
100.000	-.0798	-.0801	-.0684	-.0607	-.0414	-.0568	-.0464	-.0467	-.0388	-.0758	-.0645	-.1042	-.1187	-.1160	-.1359
110.000	.0000	-.0806	-.0679	-.0528	-.0507	-.0512	-.0437	-.0413	-.0413	-.0464	-.0577	-.0785	-.0831	-.0931	.0000
120.000						-.0769								-.0777	
130.000						-.1009								-.0680	
140.000						-.0966								-.0715	
150.000						-.0712								-.0480	
160.000						-.0764								-.0331	
170.000						-.0650								-.0258	
180.000	-.0883	-.0796	-.0743	-.0761	-.0700	-.0612	-.0704	-.0753	-.0772	-.0688	-.0637	-.0485	-.0323	-.0129	.0777

X/L	.7290	.7470	.7670	.7850	.8030	.9290	.8620	.9000	.9400
PHI									
60.000							-.1263		
70.000							-.1854	-.1650	.0000
80.000							-.2205	-.2427	-.1732
90.000	-.1513	-.1144	-.1702	-.2177	.0000	.0000	-.2253	-.2228	-.1842
100.000	-.1408	-.1213	-.1433	-.1653	-.2408	-.2765			
110.000	-.0814	-.0840	-.0993	-.1456	-.2844	-.4003			
120.000						-.7615			
130.000						-.5075			
140.000						-.0987			
150.000						.0966			
160.000						.0748			
170.000						-.0568			
180.000	-.0945	.0957	.1566	.2199	.2905	.4342			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .752 ALPHA (3) = -2.149

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4010	.4310
PHI															
60.000	-.2479	-.2869	-.3995												
70.000	-.2079	-.2829	-.4068												
80.000	-.1798	-.3488	-.4313												
90.000			-.5768	-.6224	-.5416	-.3184	-.2415	-.1903	-.1537	-.1540	-.1225	-.1110	-.0755	-.0697	-.0822
100.000						-.3312	-.2813	-.2277	-.1673	-.1388	-.1235	-.1206	-.0891	-.1138	-.0862
110.000						-.5149	-.3585	-.2648	-.1975	-.1556	-.1313	-.1180	-.1061	-.1093	-.0843
120.000						-.3638								.0000	
130.000						-.3269								-.1257	
140.000						-.3187								-.1300	
150.000						-.2952								-.1292	
160.000						-.2010								-.1308	
170.000						-.2712								-.1286	
180.000						-.2765	-.2298	-.2002	-.1860	-.1684	-.1348	-.1156	-.1042	-.1217	-.0957

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0583	-.0610	-.0528	-.0395	-.0323	-.0363	-.0117	-.0204	-.0350	-.0531	-.0717	-.1099	-.1493	-.1534	-.1457
100.000	-.0787	-.0844	-.0751	-.0607	-.0528	-.0597	-.0512	-.0447	-.0452	-.0853	-.0739	-.1185	-.1355	-.1304	-.1472
110.000	.0000	-.0674	-.0719	-.0589	-.0488	-.0498	-.0490	-.0396	-.0450	-.0577	-.0758	-.0928	-.1126	-.1153	.0000
120.000						-.0790								-.0912	
130.000						-.1009								-.0820	
140.000						-.0945								-.0758	
150.000						-.0772								-.0587	
160.000						-.0812								-.0490	
170.000						-.0739								-.0387	
180.000	-.0974	-.0950	-.0899	-.0905	-.0907	-.0728	-.0936	-.0907	-.0972	-.0934	-.0806	-.0796	-.0625	-.0404	.0586

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1475		
70.000							-.1930	-..651	.0000
80.000							-.2261	-.2322	-.1695
90.000	-.1902	-.1411	-.1833	-.2210	.0000	.0000	-.2343	-.2220	-.1872
100.000	-.1795	-.1380	-.1475	-.1784	-.2460	-.2909			
110.000	-.1393	-.0970	-.1078	-.1498	-.2819	-.4064			
120.000						-.7194			
130.000						-.4789			
140.000						-.1098			
150.000						.0787			
160.000						.0482			
170.000						-.0780			
180.000	-.1142	.0825	.1359	.1923	.2683	.4036			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .748 ALPHA (4) = .009

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2410	-.2880	-.3924												
70.000	-.2136	-.2679	-.3892												
80.000	-.1892	-.3371	-.4241												
90.000			-.5380	-.6169	-.5952	-.3253	-.2298	-.1871	-.1466	-.1594	-.1226	-.1084	-.0923	-.0939	-.0928
100.000						-.3449	-.2734	-.2196	-.1702	-.1358	-.1038	-.1167	-.1078	-.1225	-.0880
110.000						-.4510	-.3333	-.2484	-.1791	-.1471	-.1143	-.1088	-.1059	-.1139	-.0864
120.000						-.3621								.0000	
130.000						-.3401								-.1299	
140.000						-.3430								-.1318	
150.000						-.3248								-.1422	
160.000						-.3038								-.1334	
170.000						-.2915								-.1382	
180.000						-.3162	-.2261	-.2038	-.1874	-.1680	-.1423	-.1355	-.1262	-.1243	-.1174

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0696	-.0588	-.0489	-.0398	-.0364	-.0396	-.0344	-.0426	-.0576	-.0831	-.0885	-.1290	-.1685	-.1843	-.1747
100.000	-.0907	-.0770	-.0700	-.0537	-.0438	-.0575	-.0665	-.0622	-.0578	-.1103	-.0882	-.1263	-.1595	-.1489	-.1711
110.000	.0000	-.0575	-.0636	-.0652	-.0551	-.0494	-.0638	-.0706	-.0611	-.0771	-.0852	-.1078	-.1203	-.1293	.0000
120.000						-.0639								-.1037	
130.000						-.0967								-.0787	
140.000						-.1008								-.0741	
150.000						-.0867								-.0648	
160.000						-.0954								-.0607	
170.000						-.0965								-.0469	
180.000	-.1050	-.0901	-.0986	-.0981	-.0885	-.0967	-.1101	-.1131	-.1196	-.1185	-.0928	-.0885	-.0607	-.0417	.0291

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PH									
60.000							-.1533		
70.000							-.1857	-.1569	.0000
80.000							-.2208	-.2123	-.1486
90.000	-.1850	-.1680	-.2103	-.2283	.0000	.0000	-.2355	-.2048	-.1672
100.000	-.1753	-.1462	-.1709	-.1935	-.2546	-.2765			
110.000	-.1297	-.1217	-.1273	-.1588	-.2651	-.3847			
120.000						-.6602			
130.000						-.4399			
140.000						-.1105			
150.000						.0606			
160.000						.0194			
170.000						-.0811			
180.000	-.1299	.0541	.1035	.1618	.2354	.3752			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REP022)

MACH (2) = .751 ALPHA (5) = 2.152

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2484	-.2770	-.3715												
70.000	-.2038	-.2593	-.3675												
80.000	-.1648	-.3166	-.3992												
90.000			-.4975	-.6046	-.5683	-.3293	-.2417	-.1896	-.1579	-.1573	-.1298	-.1079	-.0911	-.0876	-.0977
100.000						-.3266	-.2769	-.2217	-.1720	-.1373	-.1069	-.1127	-.0977	-.1190	-.0953
110.000						-.4364	-.3130	-.2434	-.1747	-.1357	-.1127	-.1102	-.0948	-.1014	-.0853
120.000						-.3512								.0000	
130.000						-.3645								-.1179	
140.000						-.3768								-.1182	
150.000						-.4009								-.1166	
160.000						-.3928								-.1205	
170.000						-.3456								-.1317	
180.000						-.3568	-.2454	-.2089	-.1886	-.1677	-.1448	-.1338	-.1224	-.1123	-.1179

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0624	-.0579	-.0547	-.0504	-.0398	-.0494	-.0432	-.0583	-.0745	-.1037	-.1160	-.1673	-.2030	-.2039	-.2075
100.000	-.0754	-.0817	-.0762	-.0624	-.0486	-.0624	-.0764	-.0778	-.0543	-.1281	-.1168	-.1571	-.1860	-.1725	-.1975
110.000	.0000	-.0720	-.0682	-.0624	-.0669	-.0656	-.0664	-.0605	-.0724	-.0791	-.1013	-.1300	-.1333	-.1495	.0000
120.000						-.0669								-.1100	
130.000						-.1008								-.0873	
140.000						-.1051								-.0757	
150.000						-.0891								-.0681	
160.000						-.0973								-.0608	
170.000						-.0986								-.0673	
180.000	-.1200	-.1113	-.1099	-.1038	-.0924	-.1064	-.1156	-.1183	-.1208	-.1178	-.1116	-.1116	-.0884	-.0611	.0082

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1494		
70.000							-.1832	-.1579	.0000
80.000							-.2083	-.2112	-.1448
90.000	-.2044	-.1891	-.2083	-.2293	.0000	.0000	-.2247	-.2109	-.1635
100.000	-.1870	-.1711	-.1814	-.1949	-.2551	-.3026			
110.000	-.1473	-.1368	-.1255	-.1606	-.2632	-.3795			
120.000						-.6047			
130.000						-.4125			
140.000						-.1136			
150.000						.0463			
160.000						-.0019			
170.000						-.0992			
180.000	-.1360	.0415	.0957	.1441	.1980	.3346			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .751 ALPHA (6) = 4.293

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0800	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2451	-.2673	-.3708												
70.000	-.1983	-.2443	-.3550												
80.000	-.1904	-.2968	-.3775												
90.000			-.4639	-.6030	-.5524	-.3260	-.2447	-.1954	-.1681	-.1592	-.1324	-.1131	-.0967	-.0967	-.0962
100.000						-.3376	-.2745	-.2249	-.1721	-.1386	-.1225	-.1209	-.0994	-.1205	-.0933
110.000						-.4100	-.3080	-.2517	-.1756	-.1364	-.1075	-.1098	-.0837	-.1047	-.0879
120.000						-.3580								.0000	
130.000						-.3899								-.1127	
140.000						-.4172								-.0989	
150.000						-.4545								-.1098	
160.000						-.4869								-.1238	
170.000						-.4754								-.1253	
180.000						-.4427	-.2922	-.2155	-.1879	-.1723	-.1437	-.1343	-.1194	-.1242	-.1138

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7150
PHI															
90.000	-.0730	-.0663	-.0677	-.0586	-.0463	-.0575	-.0560	-.0707	-.0889	-.1272	-.1468	-.2024	-.2483	-.2342	-.2453
100.000	-.0655	-.0965	-.0797	-.0693	-.0599	-.0746	-.0800	-.0756	-.0862	-.1392	-.1367	-.1769	-.2095	-.2041	-.2152
110.000	.0000	-.0789	-.0698	-.0623	-.0658	-.0759	-.0835	-.0767	-.0808	-.1001	-.1161	-.1565	-.1734	-.1666	.0000
120.000						-.0647								-.1234	
130.000						-.1009								-.0962	
140.000						-.1025								-.1128	
150.000						-.0848								-.0762	
160.000						-.0987								-.0778	
170.000						-.0914								-.0759	
180.000	-.1215	-.1045	-.1090	-.1021	-.1157	-.1065	-.1204	-.1240	-.1337	-.1240	-.1210	-.1242	-.0979	-.0732	.0019

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1439		
70.000							-.1740	-.1415	.0000
80.000							-.2049	-.2082	-.1411
90.000	-.2803	-.1954	-.2193	-.2410	.0000	.0000	-.2185	-.1961	-.1475
100.000	-.2639	-.1838	-.1826	-.2031	-.2541	-.2636			
110.000	-.1674	-.1440	-.1388	-.1625	-.2530	-.3893			
120.000						-.5616			
130.000						-.3765			
140.000						-.1349			
150.000						-.0075			
160.000						-.0364			
170.000						-.1112			
180.000	-.1820	.0398	.0733	.1228	.1747	.2677			

AMES 60-030 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (2) = .740 ALPHA (7) = 8.554

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4510
PHI															
80.000	-.2524	-.2532	-.3210												
70.000	-.1959	-.2341	-.3135												
60.000	-.1808	-.2642	-.3342												
90.000			-.3834	.5479	-.5755	-.3345	-.2609	-.2242	-.1774	-.1844	-.1518	-.1453	-.1037	-.0989	-.11[illegible]
100.000						-.3426	-.2916	-.2431	-.1812	-.1494	-.1176	-.1410	-.1051	-.1270	-.1[illegible]
110.000						-.3961	-.3123	-.2644	-.1927	-.1513	-.1219	-.1053	-.0973	-.1174	-.0361
120.000						-.3783								.0000	
130.000						-.4580								-.1061	
140.000						-.5452								-.0956	
150.000						-.5635								-.0960	
160.000						-.5966								-.1[illegible]	
170.000						-.6491								-.1[illegible]	
180.000						-.6345	-.3481	-.2837	-.2038	-.1709	-.1470	-.1326	-.1214	-.1235	-.1132

X/L	.4900	.4480	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1000	-.0848	-.0829	-.0730	-.0775	-.1051	-.0935	-.1107	-.1385	-.1707	-.2156	-.2698	-.2955	-.3007	-.2885
100.000	-.0933	-.0778	-.0971	-.0792	-.0808	-.0931	-.1012	-.1186	-.1187	-.1860	-.1829	-.2437	-.2802	-.2551	-.2635
110.000	.0000	-.0875	-.0743	-.0851	-.0759	-.1043	-.1001	-.1091	-.1265	-.1483	-.1790	-.2[illegible]74	-.2167	-.2[illegible]38	.0000
120.000						-.0931								-.1711	
130.000						-.1113								-.1247	
140.000						-.1072								-.1103	
150.000						-.0968								-.1275	
160.000						-.1129								-.1045	
170.000						-.1258								-.1251	
180.000	-.1260	-.1274	-.1231	-.1169	-.1161	-.1205	-.1470	-.1486	-.1609	-.1456	-.1302	-.1471	-.1225	-.1[illegible]4	-.0417

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9030	.9400
PHI									
80.000							-.1357		
70.000							-.1716	-.1302	.0000
60.000							-.1835	-.1700	-.1395
90.000	-.3020	-.2361	-.2408	-.2627	.0000	.0000	-.2168	-.1951	-.1424
100.000	-.2832	-.2237	-.2183	-.2183	-.2575	-.2656			
110.000	-.2015	-.1729	-.1600	-.1522	-.2561	-.3757			
120.000						-.5125			
130.000						-.3199			
140.000						-.1338			
150.000						-.0807			
160.000						-.0514			
170.000						-.0173			
180.000	-.2131	-.0025	.0379	.0671	.1029	.1112			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .851 ALPHA (1) = -8.362

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.1923	-.2759	-.6186												
70.000	-.1981	-.2655	-.5114												
80.000	-.1098	- 3126	-.5119												
90.000			-.6550	-.9725	-.6567	-.6436	-.3660	-.4012	-.2491	-.1620	-.1303	-.0890	-.0407	-.0819	-.0548
100.000						-.6606	-.5517	-.3498	-.2251	-.1805	-.1214	-.1110	-.0947	-.1048	-.0885
110.000						-.6453	-.5274	-.3968	-.2837	-.1865	-.1471	-.1321	-.1043	-.1092	-.0836
120.000						-.3896								.0000	
130.000						-.2668								-.1550	
140.000						-.2314								-.1316	
150.000						-.2190								-.1259	
160.000						-.1824								-.1038	
170.000						-.1641								-.0905	
180.000						-.1937	-.1429	-.1493	-.1365	-.1377	-.0979	-.0944	-.0644	-.0464	-.0449

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0442	-.0476	-.0375	-.0336	-.0168	-.0247	.0002	-.0023	-.0035	-.0113	-.0230	-.0561	-.0885	-.0662	-.0751
100.000	-.0[illegible]4	-.1044	-.0924	-.0533	-.0592	-.0422	-.0394	-.0228	.0045	-.0379	-.0230	-.0418	-.0659	-.0456	-.0585
110.000	.0000	-.0769	-.0567	-.0378	-.0338	-.0274	-.0373	.0058	.0224	.0125	.0035	-.0022	-.0118	-.0010	.0000
120.000						-.0562								-.0281	
130.000						-.0833								-.0140	
140.000						-.0841								-.0135	
150.000						-.0233								.0028	
160.000						-.0422								.0003	
170.000						-.0103								.0259	
180.000	-.0473	-.0346	-.0296	-.0247	-.0146	-.0113	-.0241	-.0118	-.0173	-.0166	-.0130	.0003	.0326	.0385	.1500

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
90.000							-.2107		
70.000							-.3031	-.2437	.0000
80.000							-.3107	-.3456	-.2651
90.000	-.0753	-.0331	-.1219	-.1670	.0000	.0000	-.3674	-.3012	-.2634
100.000	-.1159	-.0920	-.1005	-.1220	-.2240	-.3372			
110.000	-.0129	-.0195	-.0357	-.0927	-.2383	-.4533			
120.000						-.7306			
130.000						-.4619			
140.000						.0079			
150.000						.2081			
160.000						. 659			
170.000						.0572			
180.000	-.0078	.1701	.2658	.3054	.3029	.5480			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .849 ALPHA (2) = -4.177

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2142	-.2946	-.6133												
70.000	-.1681	-.2735	-.5198												
80.000	-.1445	-.3025	-.5103												
90.000			-.6061	-.9479	-.6478	-.6296	-.4715	-.2830	-.1721	-.0932	-.0604	-.0554	-.0411	-.0381	-.0596
100.000						-.6321	-.5191	-.3462	-.1832	-.1289	-.0887	-.0857	-.0749	-.0877	-.0744
110.000						-.6604	-.5368	-.3465	-.2147	-.1477	-.1115	-.1040	-.0890	-.0936	-.0793
120.000						-.5334								.0000	
130.000						-.4216								-.1258	
140.000						-.3427								-.1331	
150.000						-.3318								-.1205	
160.000						-.3315								-.1210	
170.000						-.2601								-.1153	
180.000						-.3236	-.1259	-.1299	-.1400	-.1329	-.1095	-.1067	-.0978	-.0931	-.0890

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0401	-.0331	-.0311	-.0208	-.0134	-.0163	-.0067	-.0021	-.0140	-.0358	-.0254	-.0631	-.1078	-.0998	-.1154
100.000	-.0793	-.0627	-.0625	-.0504	-.0395	-.0430	-.0438	-.0469	-.0298	-.0735	-.0390	-.0815	-.0973	-.1023	-.1125
110.000	.0000	-.0474	-.0489	-.0430	-.0321	-.0316	-.0330	-.0155	-.0212	-.0220	-.0309	-.0468	-.0548	-.0596	.0000
120.000						-.0445								-.0500	
130.000						-.0898								-.0460	
140.000						-.0841								-.0375	
150.000						-.0680								-.0237	
160.000						-.0660								-.0151	
170.000						-.0682								-.0123	
180.000	-.0694	-.0681	-.0620	-.0689	-.0526	-.0629	-.0765	-.0758	-.0665	-.0710	-.0395	-.0440	-.0179	-.0003	.0822

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2435		
70.000							-.3365	-.2518	.0000
80.000							-.3556	-.2999	-.2147
90.000	-.1185	-.1028	-.1582	-.2153	.0000	.0000	-.3829	-.2875	-.2195
100.000	-.1396	-.1049	-.1220	-.1656	-.2648	-.3506			
110.000	-.0633	-.0625	-.0744	-.1296	-.2528	-.4629			
120.000						-.6994			
130.000						-.4258			
140.000						-.0210			
150.000						.1649			
160.000						.1269			
170.000						.0106			
180.000	-.0864	.1115	.1794	.2379	.3306	.4712			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .852 ALPHA (3) = -2.042

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2004	-.2794	-.5522												
70.000	-.1635	-.2488	-.4835												
80.000	-.1366	-.3019	-.4734												
90.000			-.5500	-.8950	-.6182	-.6026	-.4861	-.3449	-.1721	-.1217	-.0716	-.0585	-.0294	-.0316	-.0397
100.000						-.6049	-.5595	-.4076	-.2444	-.1412	-.0738	-.0751	-.0507	-.0645	-.0453
110.000						-.6380	-.5528	-.3874	-.2486	-.1528	-.0941	-.0650	-.0601	-.0679	-.0480
120.000						-.6180								.0000	
130.000						-.5154								-.1004	
140.000						-.4670								-.1082	
150.000						-.4383								-.1124	
160.000						-.4366								-.1146	
170.000						-.6083								-.1102	
180.000						-.6788	-.1802	-.1126	-.1222	-.1247	-.1126	-.0950	-.0837	-.0851	-.0679

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0257	-.0383	-.0359	-.0300	-.0185	-.0265	-.0009	.0036	-.0124	-.0234	-.0520	-.0961	-.1316	-.1471	-.1240
100.000	-.0461	-.0702	-.0609	-.0548	-.0447	-.0506	-.0314	-.0294	-.0189	-.0555	-.0653	-.1051	-.1266	-.1203	-.1283
110.000	.0000	-.0643	-.0501	-.0611	-.0457	-.0386	-.0309	-.0324	-.0194	-.0317	-.0555	-.0753	-.0908	-.0951	.0000
120.000						-.0548								-.0773	
130.000						-.0687								-.0590	
140.000						-.0818								-.0583	
150.000						-.0620								-.0480	
160.000						-.0710								-.0428	
170.000						-.0657								-.0363	
180.000	-.0958	-.0872	-.0842	-.0923	-.0722	-.0617	-.0745	-.0783	-.0790	-.0730	-.0783	-.0763	-.0540	-.0350	.0629

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9090	.9400
PHI									
60.000							-.3340		
70.000							-.3821	-.2544	.0000
80.000							-.4202	-.3420	-.2141
90.000	-.1437	-.1115	-.1695	-.2108	.0000	.0000	-.4292	-.3371	-.2238
100.000	-.1522	-.1086	-.1307	-.1636	-.2570	-.3920			
110.000	-.0816	-.0686	-.0735	-.1162	-.2641	-.4896			
120.000						-.6810			
130.000						-.3937			
140.000						-.0284			
150.000						.1440			
160.000						.0906			
170.000						-.0159			
180.000	-.0780	.1005	.1688	.2392	.2922	.4328			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (3) = .850 ALPHA (4) = .047

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.2104	-.2973	-.5283												
70.000	-.1699	-.2495	-.4761												
80.000	-.1533	-.3032	-.4556												
90.000			-.5333	-.8468	-.9697	-.4333	-.3329	-.2204	-.1441	-.1256	-.1026	-.0848	-.0643	-.0604	-.0789
100.000						-.4289	-.4527	-.2924	-.1882	-.1221	-.0850	-.0956	-.0697	-.0941	-.0705
110.000						-.5575	-.4606	-.3485	-.2595	-.1813	-.1424	-.1076	-.0811	-.0944	-.0757
120.000						-.5034								.0000	
130.000						-.6189								-.0757	
140.000						-.6775								-.0603	
150.000						-.7312								-.0661	
160.000						-.7683								-.0752	
170.000						-.7745								-.0655	
180.000						-.7399	-.6180	-.4045	-.2934	-.1993	-.1273	-.0951	-.0813	-.0816	-.0808

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0508	-.0523	-.0493	-.0262	-.0168	-.0277	-.0147	-.0190	-.0295	-.0606	-.0840	-.1296	-.1617	-.1554	-.1693
100.000	-.0619	-.0791	-.0574	-.0520	-.0392	-.0419	-.0461	-.0471	-.0298	-.0804	-.0802	-.1228	-.1502	-.1279	-.1603
110.000	.0000	-.0658	-.0525	-.0424	-.0449	-.0409	-.0423	-.0368	-.0428	-.0513	-.0744	-.1055	-.1028	-.1063	.0000
120.000						-.0503								-.0965	
130.000						-.0772								-.0762	
140.000						-.0857								-.0649	
150.000						-.0706								-.0569	
160.000						-.0802								-.0521	
170.000						-.0719								-.0521	
180.000	-.0929	-.0862	-.0887	-.0781	-.0788	-.0794	-.0934	-.0970	-.1030	-.1065	-.1113	-.0942	-.0875	-.0581	.0287

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2820		
70.000							-.3553	-.2832	.0000
80.000							-.3976	-.3080	-.2008
90.000	-.1866	-.1615	-.2023	-.2571	.0000	.0000	-.4280	-.3162	-.2122
100.000	-.1800	-.1449	-.1679	-.2032	-.3050	-.4185			
110.000	-.1138	-.1007	-.1107	-.1558	-.2791	-.5047			
120.000						-.6422			
130.000						-.3881			
140.000						-.0324			
150.000						.1214			
160.000						.0624			
170.000						-.0253			
180.000	-.1223	.0713	.1361	.1882	.2527	.3881			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .852 ALPHA (5) = 2.314

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2271	-.3069	-.5079												
70.000	-.1883	-.2595	-.4360												
80.000	-.1696	-.2861	-.4427												
90.000			-.4923	-.7932	-.9510	-.4338	-.2846	-.2167	-.1843	-.1692	-.1398	.1156	-.0877	-.0617	-.0686
100.000						-.4462	-.3556	-.2706	-.1984	-.1386	-.1131	-.1146	-.0833	-.0784	-.0475
110.000						-.5941	-.4038	-.3427	-.2767	-.1939	-.1393	-.1062	-.0676	-.0831	-.0428
120.000						-.5956								.0000	
130.000						-.6497								-.0600	
140.000						-.6921								-.0534	
150.000						-.7401								-.0492	
160.000						-.7722								-.0602	
170.000						-.7828								-.0796	
180.000						-.7576	-.6608	-.4796	-.3449	-.2266	-.1591	-.1246	-.0828	-.0873	-.0664

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0369	-.0516	-.0506	-.0471	-.0341	-.0435	-.0188	-.0161	-.0374	-.0639	-.1095	-.1551	-.2069	-.2106	-.2113
100.000	-.0435	-.0774	-.0644	-.0599	-.0494	-.0582	-.0379	-.0409	-.0406	-.0866	-.0958	-.1455	-.1873	-.1761	-.1893
110.000	.0000	-.0629	-.0612	-.0624	-.0631	-.0757	-.0471	-.0406	-.0471	-.0581	-.0988	-.1290	-.1486	-.1488	.0000
120.000						-.0619								-.1175	
130.000						-.0726								-.0970	
140.000						-.0751								-.1008	
150.000						-.0764								-.0855	
160.000						-.0846								-.0787	
170.000						-.0801								-.0867	
180.000	-.0889	-.0845	-.0919	-.0951	-.0965	-.0754	-.0987	-.1014	-.0962	-.1082	-.1193	-.1120	-.1063	-.0905	.0012

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2780		
70.000							-.3219	-.2233	.0000
80.000							-.3690	-.2894	-.1885
90.000	-.2172	-.1741	-.2158	-.2627	.0000	.0000	-.3908	-.2813	-.2107
100.000	-.2307	-.1656	-.1789	-.2025	-.3101	-.4268			
110.000	-.1410	-.1237	-.1196	-.1561	-.2870	-.5223			
120.000						-.6110			
130.000						-.3619			
140.000						-.0771			
150.000						.0451			
160.000						-.0006			
170.000						-.0693			
180.000	-.1431	.0845	.1156	.1650	.2051	.3129			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .850 ALPHA (6) = 4.429

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2216	-.3064	-.4383												
70.000	-.1891	-.2583	-.4046												
80.000	-.1606	-.2856	-.3880												
90.000			-.4636	-.7279	-.9277	-.4118	-.2911	-.2390	-.2038	-.2008	-.1599	-.1252	-.0830	-.0897	-.0867
100.000						-.4085	-.3630	-.3045	-.2162	-.1740	-.1408	-.1167	-.0857	-.1060	-.0677
110.000						-.5360	-.4349	-.3766	-.3307	-.2313	-.1534	-.0961	-.0739	-.0852	-.0680
120.000						-.5541								.0000	
130.000						-.6718								-.0653	
140.000						-.7110								-.0672	
150.000						-.7512								-.0749	
160.000						-.7621								-.0783	
170.000						-.7618								-.0894	
180.000						-.7504	-.6915	-.5896	-.4465	-.3079	-.2412	-.1573	-.1062	-.0882	-.0823

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0448	-.0801	-.0428	-.0384	-.0298	-.0438	-.0360	-.0455	-.0634	-.1086	-.1416	-.1853	-.2431	-.2438	-.2328
100.000	-.0482	-.0729	-.0808	-.0542	-.0364	-.0574	-.0586	-.0601	-.0518	-.1151	-.1281	-.1795	-.2014	-.2074	-.2224
110.000	.0000	-.0512	-.0532	-.0520	-.0475	-.0608	-.0566	-.0589	-.0689	-.0797	-.1193	-.1426	-.1652	-.1672	.0000
120.000						-.0500								-.1198	
130.000						-.0596								-.1057	
140.000						-.0772								-.1032	
150.000						-.0684								-.1072	
160.000						-.0842								-.1004	
170.000						-.0810								-.0989	
180.000	-.0882	-.0885	-.0793	-.0850	-.0855	-.0892	-.0985	-.1101	-.1234	-.1176	-.1359	-.1336	-.1338	-.0954	-.0238

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2805		
70.000							-.3386	-.2232	.0000
80.000							-.3538	-.2582	-.1730
90.000	-.2892	-.2117	-.2519	-.2859	.0000	.0000	-.3440	-.2843	-.1835
100.000	-.2852	-.1962	-.2117	-.2326	-.3251	-.4389			
110.000	-.1777	-.1546	-.1506	-.1943	-.3072	-.5296			
120.000						-.5940			
130.000						-.3343			
140.000						-.1000			
150.000						-.0122			
160.000						-.0196			
170.000						-.0536			
180.000	-.1810	.0324	.0844	.1219	.1547	.2211			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = .849 ALPHA (7) = 8.692

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2550	-.3191	-.3087												
70.000	-.2027	-.2575	-.2908												
80.000	-.2009	-.2826	-.3024												
90.000			-.3419	-.6678	-.8415	-.3891	-.2875	-.2766	-.2448	-.2674	-.2143	-.1689	-.1465	-.1223	-.1164
100.000						-.3791	-.3371	-.3322	-.2682	-.2240	-.2026	-.1763	-.1352	-.1426	-.0964
110.000						-.5246	-.3994	-.4099	-.3322	-.2796	-.2016	-.1487	-.1122	-.1290	-.0739
120.000						-.5648								.0000	
130.000						-.6628								-.1045	
140.000						-.7194								-.0853	
150.000						-.7336								-.0976	
160.000						-.7395								-.1157	
170.000						-.7395								-.1211	
180.000						-.7455	-.7186	-.6719	-.5669	-.4585	-.3292	-.2339	-.1836	-.1401	-.1058

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0843	-.0701	-.0748	-.0502	-.0487	-.0625	-.0623	-.0759	-.1111	-.1539	-.1867	-.2578	-.3257	-.3370	-.3210
100.000	-.0754	-.0741	-.0771	-.0568	-.0391	-.0581	-.0802	-.0875	-.0913	-.1637	-.1706	-.2387	-.2794	-.2789	-.2936
110.000	.0000	-.0561	-.0497	-.0586	-.0509	-.0684	-.0774	-.0812	-.1046	-.1272	-.1638	-.2101	-.2226	-.2390	.0000
120.000						-.0610								-.1721	
130.000						-.0709								-.1422	
140.000						-.0696								-.1389	
150.000						-.0774								-.1342	
160.000						-.0872								-.1271	
170.000						-.0907								-.1420	
180.000	-.0961	-.0965	-.0830	-.0842	-.0894	-.1106	-.1260	-.1426	-.1521	-.1614	-.1636	-.1849	-.1726	-.1515	-.0790

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2407		
70.000							-.2862	-.3093	.0000
80.000							-.3041	-.2572	-.1767
90.000	-.3436	-.2848	-.2979	-.3136	.0000	.0000	-.3088	-.2660	-.1962
100.000	-.3570	-.2543	-.2481	-.2596	-.3372	-.3969			
110.000	-.2395	-.1995	-.1869	-.2105	-.3076	-.5033			
120.000						-.5481			
130.000						-.2819			
140.000						-.1346			
150.000						-.0765			
160.000						-.0510			
170.000						.0106			
180.000	-.2472	-.0388	.0105	.0365	.0681	.0662			

AMES 06-630 PRESSURE VENTING - INTEG. VEHICLE (REBOE2)

MACH (4) = .952 ALPHA (1) = -8.330

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0808	-.1190	-.4189												
70.000	-.0297	-.1083	-.3364												
80.000	-.0014	-.1949	-.3248												
90.000			-.4555	-.7329	-.9267	-.9582	-.9530	-.7968	-.7018	-.6005	-.4782	-.4066	-.3186	-.2373	-.2654
100.000						-.9598	-.9866	-.9150	-.6816	-.7217	-.5308	-.4341	-.3702	-.2919	-.1755
110.000						-1.1560	-1.0780	-.9435	-.6531	-.8378	-.7277	-.5569	-.5354	-.4884	-.2935
120.000						-.8467								.0000	
130.000						-.7670								-.6663	
140.000						-.5869								-.6285	
150.000						-.5088								-.5638	
160.000						-.5014								-.5041	
170.000						-.5477								-.4543	
180.000						-.5415	-.4661	-.4383	-.4237	-.4300	-.4246	-.4050	-.3988	-.3776	-.3797

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1013	-.0542	.0122	-.0408	.0488	.0736	.1112	.1191	.1137	.1005	.0954	.0655	.0313	.0332	.0352
100.000	-.1541	-.0805	-.0729	-.0182	.0198	.0229	.0585	.0626	.0775	.0557	.0715	.0480	.0255	.0450	.0460
110.000	.0000	-.1084	-.0482	.0038	.0175	.0537	.0789	.1007	.0873	.1156	.1087	.1028	.0720	.0977	.0000
120.000						.0467								.0980	
130.000						.0285								.0875	
140.000						.0311								.0859	
150.000						.0411								.0989	
160.000						.0587								.1154	
170.000						.0585								.1233	
180.000	-.3838	-.2029	-.0186	.0036	.0483	.0659	.0661	.0652	.0724	.0738	.0799	.0850	.1052	.1335	.2334

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1703		
70.000							-.2689	-.3120	.0000
80.000							-.3147	-.3756	-.2715
90.000	.0821	.1127	.0348	-.0591	.0000	.0000	-.2933	-.3294	-.2782
100.000	.0282	.0747	.0229	.0215	-.0568	-.1550			
110.000	.1109	.1195	.1074	.0582	-.0660	-.2502			
120.000						-.5195			
130.000						-.2804			
140.000						.1473			
150.000						.3302			
160.000						.2655			
170.000						.1663			
180.000	.0851	.2587	.3353	.4022	.4680	.5977			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .952 ALPHA (2) = -6.246

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0831	-.1456	-.4399												
70.000	- 0519	-.1315	-.3556												
80.000	-.0280	-.1968	-.3378												
90.000			-.4457	-.7353	-.8356	-.9789	-.6986	-.7247	-.6335	-.5881	-.5825	-.5024	-.4216	-.3889	-.2230
100.000						-.7789	-.7287	-.6828	-.6502	-.5714	-.5834	-.5086	-.4237	-.3919	-.2368
110.000						-.6756	-.6525	-.6752	-.6741	-.6140	-.5561	-.4753	-.4085	-.3726	-.2957
120.000						-.9122								.0000	
130.000						-.8539								-.5282	
140.000						-.7319								-.4707	
150.000						-.5779								-.6065	
160.000						-.5543								-.4154	
170.000						-.6068								-.4361	
180.000						-.6122	-.5323	-.4892	-.4649	-.4679	-.4567	-.4460	-.4087	-.4375	-.3408

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2103	-.1385	-.0989	.0218	.0021	.0345	.0594	.0715	.0636	.0664	.0660	.0637	.0268	.0165	.0095
100.000	-.2462	-.1659	-.1086	-.0376	-.0116	.0137	.0339	.0407	.0520	.0360	.0472	.0321	.0159	.0119	.0078
110.000	.0000	-.1440	-.1077	-.0342	-.0060	.0227	.0386	.0673	.0731	.0657	.0604	.0576	.0667	.0428	.0000
120.000						.0186								.0660	
130.000						.0149								.0683	
140.000						.0103								.0688	
150.000						.0244								.0746	
160.000						.0149								.0862	
170.000						.0237								.0901	
180.000	-.2696	-.1014	-.0165	.0107	.0144	.0323	.0297	.0274	.0453	.0286	.0500	.0551	.0739	.0985	.1329

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1736		
70.000							-.2439	-.2933	.0000
80.000							-.2797	-.3576	-.3133
90.000	.0122	.0318	-.0123	-.0736	.0000	.0000	-.2822	-.3371	-.3117
100.000	.0058	.0051	-.0247	-.0070	-.1013	-.1803			
110.000	.0488	.0609	.0406	.0130	-.0931	-.2553			
120.000						-.4970			
130.000						-.2673			
140.000						.1258			
150.000						.3076			
160.000						.2418			
170.000						.1658			
180.000	.0367	.2220	.2906	.3548	.4262	.5656			

AMES 88-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .940 ALPHA (3) = -4.086

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1105	-.1709	-.4556												
70.000	-.0746	-.1501	-.3735												
80.000	-.0397	-.1949	-.3509												
90.000			-.4388	-.7499	-.8352	-.6121	-.6227	-.6199	-.6187	-.6041	-.5614	-.3940	-.4431	-.3643	-.2093
100.000						-.6608	-.6351	-.6733	-.6418	-.5670	-.5523	-.5115	-.4517	-.3838	-.2255
110.000						-.7060	-.6675	-.6617	-.6540	-.6283	-.5504	-.5073	-.4308	-.3548	-.2466
120.000						-.7014								.0000	
130.000						-.8693								-.2454	
140.000						-.8310								-.3544	
150.000						-.6832								-.1886	
160.000						-.6459								-.3620	
170.000						-.6860								-.4337	
180.000						-.6967	-.6015	-.5395	-.5255	-.5050	-.4982	-.4369	-.3639	-.3326	-.0931

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1696	-.1032	-.0491	-.0018	.0388	.0640	.0700	.0643	.0534	.0333	.0536	.0312	.0120	.0088	-.0127
100.000	-.2016	-.1431	-.0552	-.0201	.0197	.0370	.0398	.0260	.0334	.0008	.0352	.0247	.0076	.0055	-.0247
110.000	.0000	-.0939	-.0788	-.0092	.0099	.0449	.0447	.0298	.0300	.0165	.0413	.0331	.0310	.0256	.0000
120.000						.0421								.0553	
130.000						.0179								.0693	
140.000						.0104								.0625	
150.000						.0143								.0700	
160.000						.0083								.0805	
170.000						.0125								.0780	
180.000	-.0405	-.0540	-.0055	.0255	.0755	.0104	.0027	-.0090	-.0156	-.0153	.0263	.0277	.0529	.0810	.1436

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1964		
70.000							-.2566	-.3170	.0000
80.000							-.2639	-.3781	-.3389
90.000	-.0161	.0010	-.0685	-.1271	.0000	.0000	-.2928	-.3676	-.3474
100.000	-.0207	-.0274	-.0714	-.0839	-.1537	-.2013			
110.000	.0095	.0121	.0048	-.0376	-.1086	-.2709			
120.000						-.4764			
130.000						-.2516			
140.000						.1188			
150.000						.2838			
160.000						.2180			
170.000						.1393			
180.000	.0026	.1658	.2298	.2893	.3669	.5345			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .949 ALPHA (4) = -1.961

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.1335	-.1630	-.4654												
70.000	-.0935	-.1532	-.3728												
80.000	-.0775	-.2021	-.3463												
90.000			-.4217	-.7287	-.9089	-.6519	-.6524	-.6585	-.6408	-.5854	-.5417	-.4852	-.3920	-.3469	-.2132
100.000						-.7180	-.6954	-.6445	-.7168	-.5894	-.5834	-.5017	-.4112	-.3631	-.2472
110.000						-.6352	-.7094	-.6831	-.6943	-.6359	-.5529	-.4885	-.3830	-.3548	-.2336
120.000						-.6857								.0000	
130.000						-.9534								-.3048	
140.000						-.8901								-.2458	
150.000						-.7347								-.3060	
160.000						-.6773								-.3851	
170.000						-.7150								-.2234	
180.000						-.7226	-.6503	-.5906	-.5782	-.5552	-.5024	-.4623	-.4316	-.4434	-.1341

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1385	-.0715	-.0092	.0366	.0708	.0810	.0831	.0850	.0682	.0467	.0505	.0118	-.0176	-.0157	-.0307
100.000	-.1429	-.0909	-.0022	.0308	.0408	.0636	.0565	.0561	.0617	.0253	.0439	.0092	-.0073	-.0052	-.0372
110.000	.0000	-.0745	-.0241	.0178	.0422	.0506	.0451	.0509	.0414	.0321	.0358	.0146	.0125	-.0010	.0000
120.000						.0543								.0318	
130.000						.0251								.0407	
140.000						.0230								.0491	
150.000						.0225								.0484	
160.000						.0178								.0474	
170.000						.0148								.0474	
180.000	-.1120	-.0194	-.0227	.0038	.0136	.0141	.0071	.0008	-.0062	-.0174	.0085	-.0010	.0293	.0442	.1189

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2151		
70.000							-.2695	-.3508	.0000
80.000							-.2972	-.4063	-.3900
90.000	-.0327	-.0092	-.0722	-.1204	.0300	.0000	-.3061	-.3983	-.4061
100.000	-.0552	-.0276	-.0682	-.0758	-.1539	-.2158			
110.000	-.0026	.0096	.0070	-.0247	-.1022	-.2695			
120.000						-.4391			
130.000						-.2285			
140.000						.1008			
150.000						.2539			
160.000						.1919			
170.000						.1083			
180.000	-.0046	.1599	.2204	.2767	.3579	.4928			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .952 ALPHA (5) = .139

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1473	-.1936	-.4576												
70.000	-.1130	-.1554	-.3617												
80.000	-.0885	-.2031	-.3349												
90.000			-.3912	-.7006	-.9400	-.9729	-.8527	-.7578	-.6148	-.5694	-.4683	-.3871	-.2449	-.1715	-.0706
100.000						-.8786	-.9331	-.9445	-.8394	-.6092	-.5075	-.4152	-.3103	-.2373	-.1019
110.000						-1.0900	-.6994	-.8447	-.6987	-.5352	-.5223	-.4206	-.3234	-.2771	-.1530
120.000						-.8684								.0000	
130.000						-.9979								-.2481	
140.000						-.9247								-.3448	
150.000						-.7832								-.3814	
160.000						-.7163								-.4006	
170.000						-.7585								-.4052	
180.000						-.7603	-.7001	-.6366	-.6060	-.5972	-.5494	-.5408	-.5076	-.4758	-.1157

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0021	.0253	.0375	.0745	.0861	.0823	.0894	.0846	.0681	.0379	.0194	-.0250	-.0617	-.0748	-.0662
100.000	-.0788	-.0067	.0311	.0582	.0851	.0684	.0669	.0686	.0704	.0205	.0238	-.0134	-.0419	-.0405	-.0551
110.000	.0000	.0003	.0434	.0908	.0875	.0587	.0637	.0621	.0535	.0381	.0191	-.0048	-.0206	-.0234	.0000
120.000						.0866								.0140	
130.000						.0511								.0289	
140.000						.0474								.0349	
150.000						.0437								.0291	
160.000						.0365								.0305	
170.000						.0264								.0226	
180.000	-.0366	-.0869	.0086	.0172	.0235	.0228	.0077	.0084	-.0018	-.0218	-.0150	-.0232	-.0118	.01[illegible]	

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2213		
70.000							-.2871	-.3745	.0000
80.000							-.3029	-.4326	-.4290
90.000	-.0782	-.0026	-.0822	-.1185	.0000	.0000	-.3080	-.4281	-.4324
100.000	-.0865	-.0413	-.0773	-.0811	-.1613	-.2337			
110.000	-.0112	.0093	.0093	-.0251	-.1132	-.2825			
120.000						-.3932			
130.000						-.2179			
140.000						.0911			
150.000						.2195			
160.000						.1437			
170.000						.0794			
180.000	-.0121	.1494	.2021	.2509	.3191	.4320			

AMES 64-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .950 ALPHA (6) = 2.281

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	-.1827	-.2298	-.4536												
70.000	-.1372	-.1873	-.3605												
60.000	-.1179	-.2187	-.3359												
90.000			-.3837	-.6902	-.9326	-.9616	-.8585	-.6261	-.5633	-.4554	-.3929	-.2767	-.1539	-.1123	-.0694
100.000						-.9686	-.6738	-.6749	-.6148	-.5160	-.4045	-.3185	-.1863	-.1334	-.0781
110.000						-1.0790	-.6531	-.6821	-.6554	-.5397	-.4628	-.3168	-.2352	-.1731	-.0583
120.000						-.9799								.0000	
130.000						-1.0310								-.1978	
140.000						-.9785								-.1299	
150.000						-.8355								-.1680	
160.000						-.7538								-.1211	
170.000						-.7926								-.2281	
180.000						-.7947	-.7549	-.6924	-.6389	-.6189	-.5121	-.3359	-.2440	-.4427	-.0735

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0154	.0398	.0530	.0561	.0661	.0507	.0655	.0634	.0502	.0264	-.0127	-.0655	-.1182	-.1500	-.1165
100.000	.0249	.0249	.0410	.0591	.0607	.0470	.0506	.0443	.0562	.0050	-.0041	-.0563	-.0928	-.0936	-.1105
110.000	.0000	.0368	.0449	.0586	.0568	.0433	.0495	.0481	.0516	.0334	-.0118	-.0408	-.0570	-.0634	.0000
120.000						.0512								-.0269	
130.000						.0434								-.0136	
140.000						.0343								-.0159	
150.000						.0357								-.0101	
160.000						.0287								-.0171	
170.000						.0220								-.0248	
180.000	-.0308	-.0011	.0070	.0200	.0140	.0120	.0038	-.0027	-.0059	-.0394	-.0592	-.0523	-.0481	-.0368	.0570

X/L	.7290	.7470	.7870	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.2392		
70.000							-.2956	-.4042	.0000
60.000							-.3277	-.4628	-.4684
90.000	-.1278	-.0795	-.1147	-.1334	.0000	.0000	-.3328	-.4572	-.4677
100.000	-.1379	-.0824	-.0902	-.0777	-.1791	-.2644			
110.000	-.0550	-.0278	-.0385	-.0209	-.1342	-.3157			
120.000						-.4089			
130.000						-.2020			
140.000						.0657			
150.000						.1640			
160.000						.0912			
170.000						.0502			
180.000	-.0959	.1218	.1791	.2242	.2823	.3593			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .947 ALPHA (7) = 4.466

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.2195	-.2647	-.4361												
70.000	-.1792	-.1978	-.3534												
80.000	-.1948	-.2305	-.3289												
90.000			-.3566	-.6667	-.8276	-.8150	-.7841	-.7396	-.6009	-.4696	-.4019	-.2914	-.1584	-.1200	-.0457
100.000						-.7973	-.8225	-.6088	-.6158	-.4480	-.3870	-.3209	-.2061	-.1207	-.0311
110.000						-1.0270	-.9021	-.7969	-.5662	-.5150	-.4245	-.2998	-.1605	-.1282	-.0355
120.000						-.9704								.0000	
130.000						-1.0590								-.1443	
140.000						-1.0090								-.0910	
150.000						-.8677								-.1248	
160.000						-.8062								-.1091	
170.000						-.8332								-.1746	
180.000						-.8520	-.7983	-.7201	-.6728	-.6358	-.5886	-.4382	-.2926	-.2000	-.0669

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0004	.0084	.0280	.0582	.0975	.0566	.0584	.0485	.0316	-.0087	-.0386	-.0930	-.1520	-.1680	-.1699
100.000	.0096	.0112	.0359	.0524	.0643	.0468	.0395	.0304	.0353	-.0148	-.0317	-.0619	-.1168	-.1218	-.1525
110.000	.0000	.0550	.0510	.0534	.0596	.0471	.0449	.0405	.0318	.0108	-.0265	-.0591	-.0805	-.0940	.0000
120.000						.0580								-.0473	
130.000						.0398								-.0305	
140.000						.0342								-.0310	
150.000						.0370								-.0244	
160.000						.0232								-.0235	
170.000						.0188								-.0355	
180.000	-.0272	.0042	.0140	.0163	.0252	.0066	-.0034	-.0176	-.0299	-.0405	-.0529	-.0704	-.0725	-.0499	.0248

X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2496		
70.000							-.3050	-.4193	.0000
80.000							-.3248	-.4775	-.4764
90.000	-.1784	-.1258	-.1442	-.1996	.0000	.0010	-.3344	-.4702	-.4771
100.000	-.2079	-.1161	-.1129	-.1058	-.1833	-.2777			
110.000	-.0849	-.0591	-.0334	-.0453	-.1478	-.3449			
120.000						-.4132			
130.000						-.1565			
140.000						.0575			
150.000						.1165			
160.000						.0664			
170.000						.0905			
180.000	-.0869	.0029	.1512	.1818	.2058	.2902			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .951 ALPHA (8) = 8.638

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	:70	.3750	.3940	.4050	.4310
PHI															
60.000	-.2538	-.2784	-.3848												
70.000	-.2134	-.2243	-.3227												
80.000	-.1898	-.2385	-.3018												
90.000			-.3208	-.5546	-.7695	-.8185	-.8154	-.7028	-.5372	-.3967	-.3775	-.3022	-.1796	-.1596	-.0621
100.000						-.8113	-.8516	-.5957	-.4626	-.4292	-.3798	-.3239	-.2050	-.1492	-.0418
110.000						-.8948	-.8848	-.5268	-.4906	-.4807	-.4158	-.3240	-.2278	-.1822	-.0332
120.000						-.8846								.0000	
130.000						-1.0580								-.1591	
140.000						-1.0410								-.1619	
150.000						-.9059								-.1626	
160.000						-.8347								-.1697	
170.000						-.8616								-.1877	
180.000						-.8864	-.8150	-.7285	-.6849	-.6170	-.5518	-.4129	-.2834	-.2419	-.1072

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0193	.0062	.0310	.0310	.0491	.0394	.0304	.0299	.0037	-.0385	-.0712	-.1297	-.1910	-.2091	-.2108
100.000	-.0103	.0273	.0312	.0445	.0607	.0380	.0329	.0169	.0146	-.0462	-.0517	-.1105	-.1565	-.1676	-.1874
110.000	.0000	.0324	.0535	.0579	.0505	.0424	.0327	.0244	.0174	-.0126	-.0459	-.0900	-.1133	-.1300	.0000
120.000						.0533								-.0773	
130.000						.0388								-.0569	
140.000						.0350								-.0616	
150.000						.0457								-.0670	
160.000						.0264								-.0644	
170.000						.0137								-.0710	
180.000	-.0689	-.0005	.0113	.0138	.0190	.0007	-.0063	-.0182	-.0404	-.0634	-.0724	- 0957	-.1011	-.0865	-.0158

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2835		
70.000							-.3311	-.4459	.0000
80.000							-.3502	-.5073	-.5039
90.000	-.2205	-.1612	-.1652	-.1847	.0000	.0000	-.3565	-.5068	-.5012
100.000	-.2452	-.1451	-.1218	-.1291	-.2108	-.3089			
110.000	-.1289	-.0851	-.0443	-.0684	-.1610	-.3631			
120.000						-.3996			
130.000						-.1692			
140.000						.0596			
150.000						.1000			
160.000						.0737			
170.000						.1477			
180.000	-.1291	.0467	.0949	.1324	.1662	.1260			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (4) = .948 ALPHA (9) = 8.774

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.2639	-.2644	-.1909												
70.000	-.2490	-.1716	-.1925												
80.000	-.2244	-.1925	-.1960												
90.000			-.2565	-.5240	-.8129	-.8471	-.7464	-.6521	-.5255	-.4892	-.4158	-.2978	-.1876	-.1284	-.0863
100.000						-.8483	-.8417	-.7097	-.5078	-.4630	-.3775	-.3170	-.1862	-.1480	-.0518
110.000						-.9339	-.9065	-.6010	-.5271	-.4994	-.4114	-.2808	-.1487	-.1330	-.0475
120.000						-.8958								.0000	
130.000						-1.0670								-.1735	
140.000						-1.0290								-.1416	
150.000						-.9181								-.1608	
160.000						-.8374								-.1504	
170.000						-.8141								-.1855	
180.000						-.9165	-.8447	-.7441	-.6421	-.5942	-.4046	-.3185	-.1955	-.1871	-.1080

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0085	-.0036	.0085	.0173	.0238	.0124	.0107	-.0070	-.0313	-.0787	-.1070	-.1734	-.2332	-.2468	-.2509
100.000	-.0180	-.0036	.0094	.0255	.0250	.0187	-.0054	-.0203	-.0175	-.0787	-.0856	-.1484	-.1955	-.2012	-.2360
110.000	.0000	.0201	.0310	.0273	.0303	.0294	.0034	-.0008	-.0185	-.0438	-.0752	-.1192	-.1503	-.1654	.0000
120.000						.0478								-.1152	
130.000						.0405								-.0849	
140.000						.0338								-.0787	
150.000						.0484								-.0891	
160.000						.0268								-.1037	
170.000						.0065								-.1079	
180.000	-.0370	-.0407	-.0083	-.0036	.0231	-.0047	-.0192	-.0396	-.0589	-.0877	-.0943	-.1157	-.1284	-.1249	-.0603

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3195		
70.000							-.3637	-.4707	.0000
80.000							-.3817	-.5309	-.5340
90.000	-.2879	-.1940	-.2011	-.2110	.0000	.0000	-.3820	-.5313	-.5304
100.000	-.2975	-.1831	-.1795	-.1543	-.2400	-.3374			
110.000	-.1746	-.1226	-.0784	-.0914	-.1835	-.4025			
120.000						-.3808			
130.000						-.1652			
140.000						.0339			
150.000						.1090			
160.000						.1112			
170.000						.2195			
180.000	-.1730	-.0102	.0370	.0762	.1203	.0795			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.059 ALPHA (1) = -8.395

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0843	.0333	-.2411												
70.000	.1108	.0408	-.1615												
80.000	.1374	-.0033	-.1504												
90.000			-.2689	-.5222	-.7034	-.7346	-.7273	-.6157	-.5484	-.5183	-.3742	-.3045	-.2512	-.2355	-.2142
100.000						-.7346	-.7524	-.7158	-.6512	-.6021	-.4563	-.3537	-.3033	-.2970	-.2395
110.000						-.9125	-.8483	-.7344	-.6482	-.6224	-.5895	-.4971	-.4531	-.4641	-.4388
120.000						-.6570								.0000	
130.000						-.5879								-.5201	
140.000						-.4626								-.4531	
150.000						-.3465								-.3918	
160.000						-.3274								-.3454	
170.000						-.3719								-.3023	
180.000						-.3638	-.3079	-.2656	-.2607	-.2619	-.2540	-.2559	-.2538	-.2553	-.2455

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1825	-.1747	-.1644	-.1445	-.0889	-.0058	.0346	.0822	.1056	.1150	.1261	.1173	.1004	.1184	.1333
100.000	-.2140	-.2083	-.1980	-.1898	-.1487	-.0989	-.0476	-.0086	.0379	.0451	.0730	.0736	.0719	.0955	.0964
110.000	.0000	-.3293	-.2706	-.2187	-.1574	-.0726	-.0229	.0370	.0677	.1020	.1186	.1321	.1465	.1574	.0000
120.000						-.1304								.1782	
130.000						-.2074								.1657	
140.000						-.2186								.1604	
150.000						-.2011								.1664	
160.000						-.2149								.1750	
170.000						-.2238								.1765	
180.000	-.2519	-.2482	-.2255	-.2359	-.2244	-.2158	-.1985	-.1233	-.0821	.0308	.0899	.1133	.1443	.1818	.2757

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0095		
70.000							-.1068	-.1695	.0000
80.000							-.1637	-.2444	-.2029
90.000	.1437	.1992	.1292	.0440	.0000	.0000	-.1465	-.2099	-.1892
100.000	.1142	.1358	.1093	.1262	.0628	-.0116			
110.000	.1682	.1876	.1951	.1598	.0507	-.1111			
120.000						-.3542			
130.000						-.1290			
140.000						.2683			
150.000						.4483			
160.000						.3708			
170.000						.2815			
180.000	.1692	.3279	.4062	.4714	.5354	.6622			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.048 ALPHA (2) = -6.218

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0800	.0131	-.2617												
70.000	.0876	.0235	-.1822												
80.000	.1125	-.0511	-.1645												
90.000			-.2640	-.5319	-.7315	-.7651	-.7503	-.6493	-.5865	-.5246	-.3830	-.3200	-.2739	-.2600	-.2309
100.000						-.7661	-.7709	-.7626	-.7022	-.6269	-.4608	-.3748	-.3191	-.3153	-.2612
110.000						-.9217	-.8571	-.7782	-.6766	-.6392	-.5887	-.4774	-.4174	-.4191	-.3943
120.000						-.7088								.0000	
130.000						-.6671								-.5426	
140.000						-.5807								-.4990	
150.000						-.4408								-.4439	
160.000						-.3979								-.3980	
170.000						-.4406								-.3547	
180.000						-.4389	-.3791	-.3389	-.3241	-.3174	-.3058	-.3065	-.3023	-.3068	-.2954

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2034	-.1705	-.1543	-.1122	-.0596	.0041	.0429	.0801	.0941	.1055	.1223	.0991	.0818	.0924	.1126
100.000	-.2380	-.2068	-.1842	-.1431	-.1055	-.0529	-.0126	.0153	.0429	.0422	.0724	.0590	.0532	.0747	.0742
110.000	.0000	-.3161	-.2609	-.2122	-.1348	-.0698	-.0226	.0140	.0433	.0631	.0842	.0803	.0948	.1064	.0000
120.000						-.0946								.1464	
130.000						-.1634								.1449	
140.000						-.1982								.1402	
150.000						-.1954								.1376	
160.000						-.2108								.1408	
170.000						-.2319								.1393	
180.000	-.2932	-.2951	-.2737	-.2604	-.2624	-.2487	-.2163	-.1416	-.0570	.0198	.0616	.0715	.1042	.1387	.2360

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0336		
70.000							-.1213	-.1872	.0000
80.000							-.1614	-.2527	-.2175
90.000	.1195	.1516	.1146	.0300	.0000	.0000	-.1567	-.2375	-.2165
100.000	.0907	.1062	.0883	.0872	.0218	-.0418			
110.000	.1394	.1654	.1620	.1322	.0340	-.1345			
120.000						-.3538			
130.000						-.1162			
140.000						.2516			
150.000						.4185			
160.000						.3324			
170.000						.2524			
180.000	.1432	.2922	.3629	.4245	.4909	.6098			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.055 ALPHA (3) = -4.142

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0519	.0058	-.2618												
70.000	.0814	.0227	-.1760												
80.000	.0986	-.0367	-.1559												
90.000			-.2406	-.5129	-.7189	-.7535	-.7478	-.6511	-.5939	-.5141	-.3799	-.3159	-.2593	-.2355	-.1934
100.000						-.7544	-.7652	-.7545	-.7252	-.6102	-.4340	-.3600	-.3055	-.2876	-.2296
110.000						-.8951	-.8363	-.7845	-.6841	-.6391	-.5413	-.4159	-.3674	-.3663	-.3287
120.000						-.7135								.0000	
130.000						-.6979								-.5301	
140.000						-.6269								-.5003	
150.000						-.4981								-.4516	
160.000						-.4361								-.4095	
170.000						-.4675								-.3667	
180.000						-.4675	-.4204	-.3728	-.3591	-.3519	-.3386	-.3312	-.3236	-.3191	-.3106

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1681	-.1448	-.1157	-.0806	-.0308	.0315	.0611	.0899	.1034	.0984	.1075	.0832	.0571	.0710	.0893
100.000	-.1989	-.1684	-.1350	-.1014	-.0550	-.0046	.0294	.0511	.0791	.0581	.0828	.0691	.0513	.0719	.0679
110.000	.0000	-.2593	-.2197	-.1712	-.1176	-.0591	-.0211	.0243	.0448	.0549	.0614	.0575	.0614	.0691	.0000
120.000						-.0414								.1274	
130.000						-.0798								.1296	
140.000						-.1201								.1270	
150.000						-.1325								.1244	
160.000						-.1583								.1197	
170.000						-.1756								.1103	
180.000	-.3135	-.3116	-.2963	-.2955	-.2650	-.2129	-.1786	-.0570	-.0131	.0268	.0474	.0536	.0699	.1040	.2028

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0442		
70.000							-.1223	-.1904	.0000
80.000							-.1549	-.2557	-.2387
90.000	.0915	.1286	.1074	.0300	.0000	.0000	-.1596	-.2461	-.2416
100.000	.0832	.1023	.0868	.0797	.0139	-.0559			
110.000	.1105	.1545	.1565	.1280	.0283	-.1329			
120.000						-.3247			
130.000						-.0781			
140.000						.2594			
150.000						.4038			
160.000						.3130			
170.000						.2339			
180.000	.1143	.2731	.3424	.4007	.4594	.5785			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (5) = 1.037 ALPHA (4) = -1.900

SECTION (1)ORB. FUSELAGE + DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0370	-.0027	-.2565												
70.000	.0668	.0225	-.1727												
80.000	.0843	-.0241	-.1476												
90.000			-.2131	-.4919	-.7050	-.7411	-.7472	-.6626	-.5935	-.4886	-.3586	-.2945	-.2332	-.2066	-.1656
100.000						-.7394	-.7639	-.7570	-.7425	-.5373	-.3888	-.3358	-.2665	-.2570	-.1888
110.000						-.8605	-.8250	-.7934	-.7053	-.6173	-.4518	-.3558	-.3143	-.3075	-.2561
120.000						-.7144								.0000	
130.000						-.7193								-.5024	
140.000						-.6582								-.4949	
150.000						-.5506								-.4573	
160.000						-.4722								-.4095	
170.000						-.5021								-.3721	
180.000						-.5051	-.4666	-.4230	-.4044	-.3924	-.3826	-.3517	-.3358	-.3281	-.3156

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1342	-.1207	-.0888	-.0384	.0071	.0366	.0867	.1111	.1178	.1066	.0908	.0574	.0174	.0171	.0400
100.000	-.1562	-.1445	-.1090	-.0886	-.0144	.0126	.0469	.0681	.0996	.0769	.0812	.0516	.0313	.0401	.0455
110.000	.0000	-.1963	-.1657	-.1245	-.0718	-.0314	.0027	.0373	.0561	.0613	.0561	.0369	.0347	.0362	.0000
120.000						-.0121								.0949	
130.000						-.0402								.1015	
140.000						-.0664								.0928	
150.000						-.0783								.0889	
160.000						-.1006								.0816	
170.000						-.1224								.0726	
180.000	-.3297	-.3280	-.2996	-.2749	-.2006	-.1464	-.1226	-.0369	.0142	.0388	.0356	.0281	.0302	.0555	.1730

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0570		
70.000							-.1210	-.2051	.0000
80.000							-.1520	-.2668	-.2591
90.000	.0414	.0803	.0822	.0258	.0000	.0000	-.1627	-.2644	-.2658
100.000	.0180	.0815	.0706	.0736	-.0012	-.0771			
110.000	.0828	.1270	.1481	.1184	.0151	-.1382			
120.000						-.2925			
130.000						-.0548			
140.000						.2587			
150.000						.3781			
160.000						.2832			
170.000						.1931			
180.000	.0834	.2489	.3155	.3725	.4190	.5258			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (S) = 1.049 ALPHA (S) = .215

SECTION: (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0145	-.0444	-.2816												
70.000	.0197	-.0089	-.1997												
80.000	.0375	-.0515	-.1737												
90.000			-.2218	-.5013	-.7239	-.7578	-.7547	-.6668	-.5484	-.4702	-.3525	-.2897	-.2394	-.2078	-.1775
100.000						-.7593	-.7712	-.7650	-.6973	-.4511	-.3564	-.2988	-.2450	-.2386	-.1726
110.000						-.8670	-.8275	-.8020	-.7238	-.5042	-.3894	-.3356	-.2901	-.2826	-.2210
120.000						-.7550								.0000	
130.000						-.7804								-.3640	
140.000						-.7290								-.4702	
150.000						-.6246								-.4751	
160.000						-.5443								-.4407	
170.000						-.5683								-.3982	
180.000						-.5744	-.5250	-.4709	-.4440	-.4298	-.4088	-.3841	-.3646	-.3586	-.3488

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1311	-.1071	-.0563	-.0046	.0262	.0529	.0759	.0953	.0959	.0759	.0608	.0195	-.0287	-.0400	-.0367
100.000	-.1386	-.1172	-.0721	-.0262	.0117	.0355	.0479	.0675	.0873	.0522	.0625	.0203	-.0072	-.0039	-.0188
110.000	.0000	-.1309	-.1208	-.0693	-.0262	.0003	.0242	.0494	.0578	.0606	.0449	.0233	.0188	.0093	.0000
120.000						.0141								.0569	
130.000						-.0137								.0757	
140.000						-.0307								.0698	
150.000						-.0494								.0673	
160.000						-.0577								.0599	
170.000						-.0775								.0416	
180.000	-.3475	-.3317	-.2605	-.1909	-.1471	-.1110	-.0570	.0203	.0171	.0192	.0197	.0121	.0136	.0276	.1180

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0805		
70.000							-.1310	-.2257	.0000
80.000							-.1647	-.2873	-.2795
90.000	-.0198	.0088	.0150	-.0586	.0000	.0000	-.1826	-.2873	-.2820
100.000	-.0423	.0170	-.0031	.0180	-.0569	-.1286			
110.000	.0322	.0805	.0967	.0684	-.0280	-.1731			
120.000						-.2801			
130.000						-.0453			
140.000						.2469			
150.000						.3277			
160.000						.2342			
170.000						.1541			
180.000	.0408	2019	.2397	.3090	.3597	.4762			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (S) = 1.052 ALPHA (S) = 2.349

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0388	-.0680	-.3066												
70.000	-.0094	-.0257	-.2117												
80.000	.0144	-.0399	-.1829												
90.000			-.2227	-.4834	-.7078	-.7400	-.7268	-.6023	-.5274	-.4819	-.3607	-.2789	-.2264	-.1888	-.1495
100.000						-.7418	-.7540	-.7296	-.5905	-.4478	-.3467	-.2813	-.2283	-.2018	-.1420
110.000						-.8420	-.8053	-.7832	-.6987	-.4409	-.3736	-.3078	-.2531	-.2450	-.1672
120.000						-.7568								.0000	
130.000						-.8049								-.2785	
140.000						-.7634								-.3522	
150.000						-.6803								-.4302	
160.000						-.5944								-.4253	
170.000						-.6088								-.3915	
180.000						-.6172	-.5658	-.5143	-.4781	-.4510	-.4279	-.3842	-.3571	-.3552	-.3490

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0967	-.0861	-.0236	.0269	.0531	.0756	.0939	.0995	.0964	.0674	.0523	.0078	-.0386	-.0636	-.0748
100.000	-.1104	-.0736	-.0394	.0071	.0477	.0614	.0730	.0812	.0947	.0489	.0572	.0146	-.0205	-.0301	-.0561
110.000	.0000	-.0817	-.0576	.0026	.0290	.0507	.0672	.0807	.0799	.0674	.0557	.0291	.0129	-.0033	.0000
120.000						.0516								.0392	
130.000						.0340								.0516	
140.000						.0200								.0566	
150.000						.0159								.0594	
160.000						.0036								.0553	
170.000						-.0071								.0398	
180.000	-.3301	-.2518	-.1944	-.1269	-.1035	-.0369	.0101	.0345	.0332	.0194	.0250	.0185	.0196	.0217	.1026

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0934		
70.000							-.1406	-.2450	.0000
80.000							-.1669	-.3027	-.2936
90.000	-.0701	.0039	-.0320	-.0695	.0000	.0000	-.1881	-.3055	-.2981
100.000	-.0944	-.0254	-.0621	-.0009	-.0882	-.1539			
110.000	-.0041	.0334	.0610	.0471	-.0289	-.1972			
120.000						-.2545			
130.000						-.0240			
140.000						.2072			
150.000						.2561			
160.000						.1745			
170.000						.1143			
180.000	.0066	.1628	.2321	.2651	.3003	.3971			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (5) = 1.044 ALPHA (7) = 4.491

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1024	-.1208	-.3383												
70.000	-.0873	-.0744	-.2466												
80.000	-.0472	-.0955	-.2061												
90.000			-.2285	-.4952	-.6948	-.6713	-.6104	-.6056	-.5959	-.6106	-.4944	-.3521	-.2522	-.2198	-.1197
100.000						-.6577	-.6703	-.6349	-.6153	-.6061	-.4797	-.3357	-.2348	-.2312	-.1268
110.000						-.8377	-.7807	-.7042	-.6587	-.5673	-.470	-.3206	-.2685	-.2492	-.1450
120.000						-.7748								.0000	
130.000						-.8472								-.2855	
140.000						-.8237								-.3071	
150.000						-.7487								-.3210	
160.000						-.6573								-.3650	
170.000						-.6577								-.3843	
180.000						-.6719	-.6304	-.5729	-.5384	-.5039	-.4618	-.4081	-.3822	-.3714	-.3309

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0897	-.0251	.0043	.0293	.0554	.0778	.0825	.0871	.0756	.0449	.0233	-.0308	-.0887	-.1073	-.1330
100.000	-.0702	-.0320	-.0056	.0269	.0562	.0674	.0721	.0750	.0771	.0391	.0347	-.0149	-.0597	-.0688	-.1129
110.000	.0003	-.0371	.0002	.0265	.0476	.0666	.0711	.0737	.0693	.0561	.0350	-.0007	-.0238	-.0380	.0000
120.000						.0681								.0088	
130.000						.0410								.0188	
140.000						.0317								.0198	
150.000						.0231								.0239	
160.000						.0194								.0304	
170.000						.0064								.0235	
180.000	-.2929	-.2354	-.1655	-.1132	-.0828	-.0009	.0252	.0298	.0229	.0084	.0064	-.0064	-.0077	.0134	.0559

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1295		
70.000							-.1761	-.2801	.0000
80.000							-.2023	-.3409	-.3361
90.000	-.1375	-.0432	-.0649	-.0997	.0000	.0000	-.2166	-.3479	-.3343
100.000	-.1636	-.0740	-.0906	-.0434	-.1086	-.1860			
110.000	-.0686	-.0101	.0298	.0220	-.0551	-.2394			
120.000						-.2878			
130.000						-.0274			
140.000						.1581			
150.000						.1959			
160.000						.1314			
170.000						.1682			
180.000	-.0360	.1459	.1932	.2221	.2438	.2809			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (S) = 1.044 ALPHA (B) = 6.698

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1535	-.1585	-.3489												
70.000	-.1158	-.1020	-.2685												
80.000	-.0860	-.1140	-.2215												
90.000			-.2331	-.4531	-.6123	-.6205	-.6134	-.6165	-.5815	-.5373	-.4532	-.3551	-.2391	-.1983	-.1248
100.000						-.6201	-.6389	-.6385	-.6182	-.5973	-.4532	-.3180	-.2224	-.2050	-.1074
110.000						-.7756	-.6975	-.6883	-.6714	-.6180	-.4118	-.3075	-.2320	-.1962	-.1029
120.000						-.7780								.0000	
130.000						-.8742								-.1902	
140.000						-.8641								-.2395	
150.000						-.7806								-.2856	
160.000						-.6993								-.3099	
170.000						-.7025								-.3268	
180.000						-.7133	-.6740	-.6102	-.5735	-.5280	-.4758	-.4210	-.3783	-.3536	-.2550

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0559	-.0305	.0152	.0323	.0579	.0676	.0654	.0647	.0470	.0163	-.0030	-.0559	-.1201	-.1404	-.1686
100.000	-.0564	-.0200	.0133	.0355	.0620	.0685	.0552	.0546	.0567	.0090	.0124	-.0384	-.0889	-.0978	-.1513
110.000	.0000	-.0063	.0213	.0389	.0620	.0691	.0587	.0630	.0544	.0394	.0226	-.0157	-.0480	-.0646	.0000
120.000						.0642								-.0126	
130.000						.0611								-.0017	
140.000						.0487								-.0076	
150.000						.0431								-.0152	
160.000						.0295								-.0065	
170.000						.0230								-.0071	
180.000	-.2053	-.1446	-.0887	-.0732	-.0209	.0172	.0247	.0243	.0146	.0012	.0042	-.0187	-.0301	-.0229	.0129

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1596		
70.000							-.2127	-.3053	.0000
80.000							-.2221	-.3636	-.3727
90.000	-.1631	-.1235	-.1004	-.1204	.0000	.0000	-.2318	-.3705	-.3690
100.000	-.2088	-.1078	-.1099	-.0532	-.1039	-.1987			
110.000	-.1055	-.0391	.0066	.0088	-.0710	-.2434			
120.000						-.2709			
130.000						-.0260			
140.000						.1703			
150.000						.1970			
160.000						.1604			
170.000						.2521			
180.000	-.0904	.0971	.1452	.1774	.2025	.1612			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (3) = 1.053 ALPHA (9) = 8.739

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1847	-.1829	-.3453												
70.000	-.1349	-.1199	-.2679												
80.000	-.1280	-.1151	-.2136												
90.000			-.2127	-.4788	-.5202	-.5680	-.5846	-.5739	-.4894	-.4526	-.4316	-.3908	-.2778	-.2223	-.1385
100.000						-.5704	-.6147	-.6110	-.5473	-.4905	-.4348	-.3458	-.2249	-.2311	-.1464
110.000						-.6371	-.6520	-.6620	-.6408	-.5872	-.4011	-.2970	-.2121	-.2072	-.1216
120.000						-.7270								.0000	
130.000						-.8767								-.1782	
140.000						-.8857								-.1809	
150.000						-.8119								-.2232	
160.000						-.7190								-.2436	
170.000						-.7143								-.2466	
180.000						-.7248	-.6955	-.6327	-.5615	-.5570	-.4701	-.4010	-.3213	-.2923	-.2121

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0606	-.0210	.0095	.0284	.0421	.0434	.0659	.0598	.0445	.0086	-.0317	-.0847	-.1453	-.1729	-.1766
100.000	-.0278	-.0151	.0142	.0348	.0509	.0472	.0563	.0557	.0585	.0034	-.0113	-.0669	-.1149	-.1342	-.1651
110.000	.0000	-.0063	.0294	.0372	.0532	.0571	.0691	.0742	.0630	.0471	.0022	-.0350	-.0689	-.0967	.0000
120.000						.0790								-.0413	
130.000						.0802								-.0248	
140.000						.0742								-.0252	
150.000						.0769								-.0308	
160.000						.0525								-.0491	
170.000						.0420								-.0445	
180.000	-.1652	-.0946	-.0588	-.0368	-.0001	.0344	.0430	.0549	.0488	.0340	.0071	-.0176	-.0398	-.0476	.0106

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1907		
70.000							-.2419	-.3361	.0000
80.000							-.2561	-.3866	-.4036
90.000	-.1925	-.1379	-.0914	-.0868	.0000	.0000	-.2610	-.3958	-.3999
100.000	-.2211	-.1198	-.1128	-.0419	-.1030	-.2168			
110.000	-.1334	-.0384	.0170	.0044	-.0835	-.2600			
120.000						-.2201			
130.000						-.0242			
140.000						.1830			
150.000						.2285			
160.000						.2140			
170.000						.3115			
180.000	-.1056	.0689	.1402	.1833	.2130	.1497			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REBOZZ)

MACH (0) = 1.101 ALPHA (1) = -8.420

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1481	.1002	-.1692												
70.000	.1734	.1094	-.0823												
80.000	.2077	.0832	-.0890												
90.000			-.1918	-.4428	-.6079	-.6532	-.6434	-.5459	-.4820	-.4655	-.3175	-.2461	-.1911	-.1735	-.1564
100.000						-.6534	-.6703	-.6365	-.5738	-.5298	-.4035	-.3008	-.2426	-.2410	-.1812
110.000						-.8241	-.7686	-.6594	-.5715	-.5500	-.5217	-.4314	-.3872	-.4015	-.3855
120.000						-.5726								.0000	
130.000						-.5065								-.4462	
140.000						-.3985								-.3814	
150.000						-.2747								-.3257	
160.000						-.2563								-.2815	
170.000						-.2989								-.2364	
180.000						-.2926	-.2361	-.2025	-.1954	-.1966	-.1881	-.1876	-.1866	-.1918	-.1828

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1276	-.1200	-.1180	-.1097	-.0833	-.0231	.0371	.0888	.1179	.1334	.1556	.1533	.1405	.1623	.1839
100.000	-.1996	-.1976	-.1570	-.1510	-.1377	-.1124	-.0612	-.0044	.0429	.0614	.1044	.1058	.1058	.1359	.1378
110.000	.0000	-.2809	-.2249	-.1879	-.1508	-.0856	-.0248	.0352	.0850	.1193	.1476	.1610	.1842	.1991	.0000
120.000						-.1452								.2225	
130.000						-.1895								.2108	
140.000						-.1821								.2039	
150.000						-.1609								.2074	
160.000						-.1751								.2171	
170.000						-.1766								.2148	
180.000	-.1917	-.1896	-.1707	-.1773	-.1697	-.1617	-.1620	-.0930	-.0917	-.0435	.0527	.1228	.1821	.2204	.3225

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0513		
70.000							-.0439	-.1056	.0000
80.000							-.1006	-.1791	-.1372
90.000	.1932	.2824	.1837	.1001	.0000	.0000	-.0823	-.1471	-.1242
100.000	.1683	.1783	.1530	.1775	.1244	.0489			
110.000	.2074	.2293	.2407	.2156	.1062	-.0507			
120.000						-.2867			
130.000						-.0695			
140.000						.3187			
150.000						.4982			
160.000						.4190			
170.000						.3305			
180.000	.2369	.3544	.4531	.5205	.5764	.6980			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.100 ALPHA (Z) = -6.143

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.242	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.1346	.0871	-.1720												
70.000	.1626	.0968	-.0955												
80.000	.1812	.0264	-.0790												
90.000			-.1776	-.4333	-.6238	-.6595	-.6533	-.5595	-.5052	-.4506	-.3121	-.2544	-.2047	-.1856	-.1590
100.000						-.6578	-.6717	-.6604	-.6063	-.5398	-.3917	-.3068	-.2501	-.2429	-.1878
110.000						-.8137	-.7563	-.6803	-.5821	-.5507	-.5118	-.4030	-.3421	-.3440	-.3212
120.000						-.6008								.0000	
130.000						-.5613								-.4499	
140.000						-.4630								-.4069	
150.000						-.3443								-.3529	
160.000						-.3038								-.3083	
170.000						-.3416								-.2666	
180.000						-.3597	-.2916	-.2529	-.2402	-.2371	-.2300	-.2244	-.2194	-.2223	-.2126

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5900	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1328	-.1211	-.1051	-.0853	-.0379	.0400	.0744	.1139	.1395	.1489	.1633	.1560	.1373	.1541	.1743
100.000	-.1644	-.1514	-.1377	-.1117	-.0762	-.0205	.0085	.0472	.0826	.0842	.1155	.1164	.1090	.1338	.1345
110.000	.0000	-.2636	-.2212	-.1749	-.1132	-.0425	.0024	.0472	.0817	.1081	.1239	.1331	.1465	.1614	.0000
120.000						-.0716								.2035	
130.000						-.1466								.2043	
140.000						-.1652								.1981	
150.000						-.1565								.1989	
160.000						-.1730								.2002	
170.000						-.1868								.1939	
180.000	-.2168	-.2158	-.1988	-.2043	-.1942	-.1862	-.1739	-.1071	-.0880	-.0106	.0720	.1143	.1535	.1914	.2914

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0404		
70.000							-.0440	-.1142	.0000
80.000							-.0803	-.1739	-.1455
90.000	.1836	.2121	.1797	.1049	.0000	.0000	-.0799	-.1599	-.1487
100.000	.1804	.1849	.1598	.1384	.1033	.0349			
110.000	.2045	.2361	.2343	.2051	.1028	-.0549			
120.000						-.2630			
130.000						-.0340			
140.000						.3216			
150.000						.4839			
160.000						.3975			
170.000						.3200			
180.000	.2077	.3581	.4273	.4681	.5462	.6601			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.101 ALPHA (3) = -4.044

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.1253	.0758	-.1786												
70.000	.1497	.0823	-.0898												
80.000	.1634	.0367	-.0770												
90.000			-.1536	-.4205	-.6175	-.6584	-.6635	-.5771	-.5248	-.4601	-.3262	-.2584	-.2014	-.1794	-.1350
100.000						-.6548	-.6795	-.6712	-.6411	-.5502	-.3832	-.2989	-.2412	-.2321	-.1642
110.000						-.7925	-.7519	-.6999	-.6040	-.5636	-.4968	-.3624	-.3039	-.2985	-.2590
120.000						-.6179								.0000	
130.000						-.6012								-.4448	
140.000						-.5384								-.4192	
150.000						-.4205								-.3709	
160.000						-.3527								-.3279	
170.000						-.3673								-.2848	
180.000						-.3871	-.3431	-.3016	-.2895	-.2862	-.2699	-.2561	-.2460	-.2429	-.2358

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1088	-.0894	-.0804	-.0575	-.0074	.0408	.0659	.1246	.1422	.1460	.1460	.1268	.1040	.1176	.1461
100.000	-.1385	- 1254	-.1057	-.0762	-.0364	.0166	.0481	.0805	.1089	.1043	.1174	.1057	.1011	.1165	.1280
110.000	.0000	-.2122	-.1824	-.1446	-.1046	-.0420	.0080	.0481	.0792	.0953	.0967	.0973	.1061	.1120	.0000
120.000						-.0310								.1684	
130.000						-.0797								.1692	
140.000						-.1091								.1665	
150.000						-.1142								.1604	
160.000						-.1358								.1558	
170.000						-.1314								.1485	
180.000	-.2498	-.2437	-.2532	-.2382	-.2195	-.1757	-.1434	-.0729	-.0389	.0297	.0722	.0658	.1055	.1458	.2490

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0161		
70.000							-.0598	-.1452	.0000
80.000							-.0909	-.1949	-.1802
90.000	.1962	.1958	.1744	.1088	.0000	.0010	-.1035	-.1864	-.1730
100.000	.1298	.1863	.1429	.1546	.0898	.0076			
110.000	.1718	.2204	.2260	.2328	.0879	-.0681			
120.000						-.2586			
130.000						-.0112			
140.000						.3143			
150.000						.4591			
160.000						.3639			
170.000						.2085			
180.000	.1986	.3390	.4042	.4809	.9021	.9998			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.098 ALPHA (4) = -1.957

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0847	.0441	-.1965												
70.000	.1159	.0682	-.1254												
80.000	.1279	.0221	-.1009												
90.000			-.1684	-.4395	-.6480	-.6854	-.6682	-.5887	-.5262	-.4393	-.3034	-.2338	-.2006	-.1817	-.1409
100.000						-.6842	-.6841	-.6734	-.6596	-.5124	-.3352	-.2724	-.2345	-.2231	-.1667
110.000						-.8032	-.7436	-.7096	-.6230	-.5530	-.4083	-.3208	-.2805	-.2736	-.2270
120.000						-.6612								.0000	
130.000						-.6628								-.4685	
140.000						-.6062								-.4487	
150.000						-.5041								-.4126	
160.000						-.4238								-.3714	
170.000						-.4491								-.3314	
180.000						-.4529	-.3908	-.3444	-.3201	-.3076	-.2913	-.2977	-.2869	-.2882	-.2774

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1110	-.0849	-.0622	-.0213	.0372	.0855	.1081	.1352	.1444	.1379	.1443	.1116	.0743	.0773	.0832
100.000	-.1341	-.1054	-.0763	-.0339	.0133	.0589	.0762	.0974	.1224	.1035	.1305	.1066	.0856	.0990	.0861
110.000	.0000	-.1553	-.1300	-.0926	-.0456	.0048	.0314	.0618	.0809	.0895	.0995	.0861	.0886	.0946	.0000
120.000						.0196								.1539	
130.000						-.0209								.1602	
140.000						-.0478								.1554	
150.000						-.0599								.1495	
160.000						-.0877								.1428	
170.000						-.1084								.1280	
180.000	-.2701	-.2659	-.2418	-.2329	-.1730	-.1362	-.1112	-.0275	.0058	.0622	.0907	.0890	.0967	.1137	.1988

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0167		
70.000							-.0464	-.1208	.0000
80.000							-.0750	-.1805	-.1721
90.000	.0820	.1160	.1087	.0584	.0000	.0000	-.0879	-.1777	-.1763
100.000	.0549	.1131	.0987	.1049	.0323	-.0153			
110.000	.1138	.1589	.1730	.1515	.0711	-.0754			
120.000						-.2263			
130.000						.0129			
140.000						.3228			
150.000						.4375			
160.000						.3409			
170.000						.2561			
180.000	.1166	.2781	.3441	.3993	.4642	.5863			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.101 ALPHA (5) = .182

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0563	.0276	-.2051												
70.000	.0866	.0611	-.1218												
80.000	.1060	.0218	-.0983												
90.000			-.1494	-.4168	-.6332	-.6704	-.6633	-.5917	-.4894	-.4247	-.3163	-.2472	-.1880	-.1665	-.1353
100.000						-.6700	-.6815	-.6752	-.6477	-.4245	-.3153	-.2635	-.2042	-.1916	-.1395
110.000						-.7787	-.7343	-.7158	-.6585	-.4727	-.3480	-.2794	-.2410	-.2302	-.1858
120.000						-.6660								.0000	
130.000						-.6896								-.3614	
140.000						-.6453								-.4211	
150.000						-.5541								-.4054	
160.000						-.4698								-.3678	
170.000						-.4865								-.3311	
180.000						-.4905	-.4424	-.3992	-.3764	-.3641	-.3470	-.3147	-.2918	-.2924	-.2859

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1015	-.0824	-.0575	-.0085	.0617	.0997	.1338	.1553	.1605	.1413	.1351	.0949	.0449	.0313	.0439
100.000	-.1112	-.0868	-.0571	-.0170	.0391	.0742	.1082	.1277	.1476	.1197	.1353	.0982	.0629	.0616	.0537
110.000	.0000	-.1246	-.0934	-.0606	-.0151	.0316	.0689	.0953	.1160	.1166	.1185	.0919	.0794	.0719	.0000
120.000						.0343								.1171	
130.000						.0080								.1298	
140.000						-.0143								.1304	
150.000						-.0284								.1275	
160.000						-.0551								.1208	
170.000						-.0711								.1045	
180.000	-.2824	-.2732	-.2323	-.1858	-.1337	-.0876	-.0636	-.0062	.0440	.0783	.0928	.0821	.0796	.0838	.1830

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0159		
70.000							-.0690	-.1595	.0000
80.000							-.1003	-.2182	-.2112
90.000	.0467	.0778	.0740	.0304	.0000	.0000	-.1207	-.2202	-.2230
100.000	.0290	.0672	.0533	.0801	.0063	-.0648			
110.000	.0971	.1345	.1571	.1299	.0458	-.1155			
120.000						-.2152			
130.000						.0172			
140.000						.3074			
150.000						.3789			
160.000						.2864			
170.000						.2026			
180.000	.1004	.2578	.3193	.3577	.4131	.5149			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.102 ALPHA (6) = 2.354

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0252	-.0003	-.2296												
70.000	.0573	.0419	-.1386												
80.000	.0784	.0143	-.1053												
90.000			-.1399	-.4078	-.6125	-.6379	-.6275	-.5354	-.4751	-.4682	-.3598	-.2516	-.1806	-.1617	-.1325
100.000						-.6398	-.6632	-.6406	-.5445	-.4492	-.3291	-.2358	-.1912	-.1842	-.1263
110.000						-.7458	-.7157	-.6957	-.6423	-.4369	-.3412	-.2705	-.2223	-.2140	-.1435
120.000						-.6676								.0000	
130.000						-.7149								-.2788	
140.000						-.6820								-.3445	
150.000						- 6033								-.3790	
160.000						-.5090								-.3620	
170.000						-.5152								-.3265	
180.000						-.5211	-.4889	-.4459	-.4215	-.4005	-.3754	-.3244	-.2956	-.2908	-.2881

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0883	-.0771	-.0288	.0107	.0612	.1042	.1400	.1571	.1627	.1483	.1258	.0839	.0315	.0070	.0116
100.000	-.0939	-.0813	-.0473	-.0043	.0489	.0793	.1128	.1425	.1592	.1287	.1308	.0894	.0503	.0388	.0297
110.000	.0003	-.0877	-.0529	-.0286	.0253	.0643	.1046	.1316	.1466	.1446	.1268	.1007	.0785	.0670	.0000
120.000						.0637								.1055	
130.000						.0448								.1170	
140.000						.0212								.1241	
150.000						.0108								.1262	
160.000						-.0143								.1212	
170.000						-.0280								.1107	
180.000	-.2939	-.2609	-.2009	-.1593	-.1136	-.0515	-.0210	.0344	.0754	.0935	.0929	.0816	.0798	.0929	.1[illegible]4

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0351		
70.000							-.0795	-.1764	.0000
80.000							-.1060	-.2327	-.2271
90.000	.0160	.0482	.0428	.0066	.0000	.0000	-.1242	-.2353	-.2305
100.000	-.0043	.0484	.0174	.0559	-.0109	-.0751			
110.000	.0786	.1016	.1304	.1145	.0424	-.1116			
120.000						-.1768			
130.000						.0490			
140.000						.2762			
150.000						.3110			
160.000						.2309			
170.000						.1619			
180.000	.0859	.2397	.2878	.3091	.3555	.4382			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.100 ALPHA (7) = 4.432

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0230	-.0447	-.2532												
70.000	.0092	.0006	-.1659												
80.000	.0271	-.0178	-.1241												
90.000			-.1443	-.4127	-.5992	-.6009	-.5248	-.5101	-.5062	-.5243	-.4440	-.2936	-.2053	-.1830	-.1423
100.000						-.6046	-.6114	-.5530	-.5225	-.5227	-.4352	-.2823	-.2057	-.2013	-.1359
110.000						-.7320	-.7037	-.6421	-.5759	-.4820	-.4014	-.2991	-.2327	-.2256	-.1355
120.000						-.6733								.0000	
130.000						-.7462								-.2680	
140.000						-.7293								-.2902	
150.000						-.6646								-.3097	
160.000						-.5712								-.3444	
170.000						-.5695								-.3340	
180.000						-.5808	-.5459	-.5035	-.4690	-.4417	-.4009	-.3361	-.3149	-.3082	-.2908

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0917	-.0563	-.0177	.0275	.0706	.1056	.1182	.1420	.1412	.1270	.1061	.0731	-.0023	-.0220	-.0317
100.000	-.0935	-.0559	-.0306	.0194	.0603	.0868	.1102	.1349	.1435	.1219	.1136	.0655	.0266	.0121	-.0158
110.000	.0000	-.0515	-.0206	.0152	.0486	.0873	.1077	.1314	.1370	.1358	.1126	.0785	.0584	.0458	.0000
120.000						.0781								.0639	
130.000						.0 1								.0931	
140.000						.0 31								.0941	
150.000						.0196								.0998	
160.000						.0098								.1008	
170.000						-.0088								.0923	
180.000	-.2621	-.2179	-.1747	-.1317	-.0935	-.0388	.0000	.0715	.0897	.0914	.0835	.0713	.0684	.0810	.1356

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0533		
70.000							-.0988	-.1975	.0000
80.000							-.1226	-.2586	-.2556
90.000	-.0331	.0089	.0069	-.0136	.0000	.0000	-.1394	-.2582	-.2542
100.000	-.0571	.0121	-.0017	.0417	-.0203	-.0952			
110.000	.0240	.0731	.1111	.1099	.0338	-.1446			
120.000						-.1951			
130.000						.0589			
140.000						.2318			
150.000						.2524			
160.000						.1934			
170.000						.2296			
180.000	.0324	.2168	.2574	.2872	.3042	.3382			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.101 ALPHA (8) = 6.570

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0731	-.0867	-.2738												
70.000	-.0416	-.0270	-.1952												
80.000	-.0264	-.0376	-.1465												
90.000			-.1574	-.4215	-.5576	-.5304	-.5025	-.5103	-.5048	-.4942	-.4074	-.3060	-.2248	-.1987	-.1543
100.000						-.5302	-.5420	-.5307	-.5205	-.5201	-.4266	-.2795	-.2123	-.2121	-.1408
110.000						-.7107	-.6148	-.5885	-.5670	-.5336	-.3982	-.2611	-.2065	-.2020	-.1343
120.000						-.6777								.0000	
130.000						-.7779								-.2310	
140.000						-.7741								-.2590	
150.000						-.7080								-.2756	
160.000						-.6174								-.2910	
170.000						-.6091								-.3092	
180.000						-.6185	-.5760	-.5297	-.4929	-.4545	-.3997	-.3511	-.3256	-.3123	-.2578

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0956	-.0522	-.0113	.0293	.0669	.0863	.1143	.1139	.1145	.0888	.0798	.0280	-.0275	-.0516	-.0701
100.000	-.0989	-.0541	-.0097	.0262	.0602	.0834	.1064	.1097	.1248	.0917	.0924	.0472	.0016	-.0112	-.0530
110.000	.0000	-.0427	-.0007	.0241	.0582	.0842	.1047	.1105	.1231	.1187	.1003	.0685	.0409	.0208	.0000
120.000						.0895								.0702	
130.000						.0785								.0848	
140.000						.0509								.0815	
150.000						.0321								.0748	
160.000						.0231								.0805	
170.000						.0177								.0777	
180.000	-.2118	-.1682	-.1300	-.0947	-.0590	.0081	.0296	.0752	.0798	.0817	.0836	.0694	.0595	.0643	.0946

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0712		
70.000							-.1124	-.2100	.0000
80.000							-.1299	-.2637	-.2775
90.000	-.0771	-.0156	-.0170	-.0268	.0000	.0000	-.1415	-.2713	-.2745
100.000	-.1111	-.0280	-.0408	.0302	-.0304	-.1028			
110.000	-.0556	.0284	.0916	.0827	.0196	-.1469			
120.000						-.1775			
130.000						.0685			
140.000						.2503			
150.000						.2758			
160.000						.2340			
170.000						.3110			
180.000	-.0110	.1543	.2113	.2420	.2708	.2077			

AMES 66-830 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.101 ALPHA (9) = 8.751

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0939	-.1259	-.2772												
70.000	-.0670	-.0664	-.1973												
80.000	-.0647	-.0519	-.1430												
90.000			-.1391	-.4029	-.4491	-.4754	-.4875	-.5033	-.4607	-.4073	-.3758	-.3440	-.2488	-.2137	-.1745
100.000						-.4752	-.5146	-.5217	-.5000	-.4488	-.3994	-.3096	-.2231	-.2131	-.1429
110.000						-.5901	-.5660	-.5722	-.5559	-.5361	-.3733	-.2534	-.2060	-.1998	-.1281
120.000						-.7012								.0000	
130.000						-.7996								-.1693	
140.000						-.8007								-.1844	
150.000						-.7353								-.2094	
160.000						-.6480								-.2316	
170.000						-.6390								-.2474	
180.000						-.6507	-.6144	-.5656	-.5284	-.4912	-.4374	-.3649	-.3055	-.2677	-.2002

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0980	-.0384	.0024	.0345	.0512	.0602	.0819	.0874	.0836	.0514	.0319	-.0170	-.0749	-.0959	-.1067
100.000	-.0949	-.0433	.0003	.0268	.0527	.0592	.0736	.0859	.1006	.0512	.0507	.0022	-.0400	-.0557	-.0913
110.000	.0000	-.0230	.0097	.0337	.0521	.0658	.0823	.0991	.1029	.0922	.0700	.0348	.0087	-.0197	.0000
120.000						.0819								.0350	
130.000						.0710								.0522	
140.000						.0572								.0543	
150.000						.0440								.0444	
160.000						.0091								.0304	
170.000						.0001								.0350	
180.000	-.1583	-.1218	-.0878	-.0658	-.0367	-.0064	.0141	.0681	.0756	.0759	.0706	.0551	.0363	.0273	.0706

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1204		
70.000							-.1611	-.2556	.0000
80.000							-.1753	-.3035	-.3203
90.000	-.1175	-.0640	-.0161	-.0311	.0000	.0000	-.1801	-.3123	-.3163
100.000	-.1466	-.0416	-.0337	.0222	-.0405	-.1374			
110.000	-.0397	.0319	.0797	.0626	-.0112	-.1773			
120.000						-.1364			
130.000						.0467			
140.000						.2487			
150.000						.2957			
160.000						.2738			
170.000						.3741			
180.000	-.0273	.1285	.1868	.2288	.2706	.2117			

AMES 98-650 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.150 ALPHA (1) = -8.381

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2283	.1758	-.0874												
70.000	.2308	.1831	-.0139												
80.000	.2852	.1399	-.0031												
90.000			-.1141	-.3583	-.4658	-.5597	-.5462	-.4542	-.3927	-.3255	-.1937	-.1451	-.0903	-.0866	-.0739
100.000						-.5597	-.5710	-.5262	-.4684	-.4173	-.2778	-.1935	-.1453	-.1443	-.0955
110.000						-.7266	-.6657	-.5505	-.4696	-.4452	-.4191	-.3277	-.2900	-.3149	-.2906
120.000						-.4803								.0000	
130.000						-.4168								-.3586	
140.000						-.2918								-.2947	
150.000						-.1884								-.2368	
160.000						-.1658								-.1911	
170.000						-.2075								-.1510	
180.000						-.2010	-.1375	-.1009	-.0929	-.1013	-.0962	-.0984	-.1008	-.1073	-.0933

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0419	-.0333	-.0193	-.0136	-.0055	.0319	.0755	.1245	.1520	.1671	.1931	.1914	.1855	.2096	.2304
100.000	-.0 [illegible]	-.0622	-.0649	-.0614	-.0663	-.0612	-.0266	.0290	.0849	.1006	.1421	.1541	.1594	.1867	.1928
110.000	[illegible]	-.1661	-.1159	-.0859	-.0562	-.0329	.0095	.0743	.1157	.1538	.1892	.2167	.2349	.2502	.0000
120.000						-.0855								.2695	
130.000						-.1099								.2589	
140.000						-.0950								.2526	
150.000						-.0637								.2540	
160.000						-.0792								.2604	
170.000						-.0854								.2589	
180.000	-.0940	-.0877	-.0685	-.0788	-.0778	-.0794	-.0753	-.0107	-.0204	.0158	.0707	.1025	.2077	.2600	.3646

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1209		
70.000							.0256	-.0412	.0000
80.000							-.0322	-.1131	-.0689
90.000	.2475	.3299	.2323	.1550	.0000	.0000	-.0115	-.0787	-.0568
100.000	.2174	.2339	.2095	.2387	.1798	.1112			
110.000	.2383	.2455	.2998	.2641	.1655	.0100			
120.000						-.2134			
130.000						-.0001			
140.000						.3806			
150.000						.5578			
160.000						.4784			
170.000						.3876			
180.000	.2358	.3708	.4989	.5639	.6277	.7436			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.192 ALPHA (2) = -6.196

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2129	.1628	-.0930												
70.000	.2378	.1759	-.0194												
80.000	.2671	.1101	-.0045												
90.000			-.1054	-.3489	-.5069	-.5633	-.5548	-.4734	-.4167	-.3145	-.1971	-.1401	-.1015	-.0872	-.0659
100.000						-.5641	-.5746	-.5607	-.5005	-.4244	-.2675	-.1897	-.1469	-.1334	-.0882
110.000						-.7181	-.6588	-.5758	-.4840	-.4506	-.3926	-.2895	-.2490	-.2513	-.2316
120.000						-.5051								.0000	
130.000						-.4585								-.3561	
140.000						-.3737								-.3124	
150.000						-.2391								-.2596	
160.000						-.2096								-.2140	
170.000						-.2496								-.1730	
180.000						-.2490	-.1942	-.1537	-.1454	-.1452	-.1346	-.1313	-.1272	-.1262	-.1155

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.67[illegible]	.6880	.7100
PHI															
90.000	-.0423	-.0322	-.0117	.0085	.0376	.0999	.1224	.1588	.1823	.1894	.2038	.1955	.1794	.1991	.2228
100.000	-.0708	-.0639	-.0419	-.0245	-.0008	.0315	.0608	.0957	.1250	.1274	.1561	.1535	.1516	.1767	.1804
110.000	.0000	-.1653	-.1200	-.0797	-.0220	.0294	.0600	.0991	.1342	.1574	.1757	.1824	.1971	.2114	.0000
120.000						-.0024								.2454	
130.000						-.0697								.2395	
140.000						-.0744								.2316	
150.000						-.0608								.2291	
160.000						-.0672								.2326	
170.000						-.0755								.2238	
180.000	-.1224	-.1218	-.1079	-.1176	-.1044	-.0880	-.0658	-.0122	.0047	.0421	.0945	.1288	.1718	.2214	.3336

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1028		
70.000							.0188	-.0529	.0000
80.000							-.0224	-.1191	-.0826
90.000	.2315	.2800	.2236	.1583	.0000	.0000	-.0202	-.1007	-.0791
100.000	.2038	.2201	.2096	.2168	.1589	.0935			
110.000	.2501	.2677	.2836	.2540	.1572	.0003			
120.000						-.1961			
130.000						.0233			
140.000						.3745			
150.000						.5352			
160.000						.4490			
170.000						.3768			
180.000	.2581	.4040	.4745	.5340	.5938	.6987			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.151 ALPHA (3) = -4.071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1957	.1484	-.0976												
70.000	.2281	.1653	-.0253												
80.000	.2541	.0988	-.0077												
90.000			-.0881	-.3439	-.4791	-.5683	-.5611	-.4878	-.4316	-.3037	-.1935	-.1303	-.0826	-.0579	-.0240
100.000						-.5677	-.5799	-.5762	-.5314	-.4059	-.2497	-.1790	-.1264	-.1126	-.0554
110.000						-.7037	-.6534	-.6005	-.4990	-.4575	-.3428	-.2294	-.1969	-.1945	-.1542
120.000						-.5243								.0000	
130.000						-.4994								-.3553	
140.000						-.4228								-.3269	
150.000						-.2956								-.2788	
160.000						-.2501								-.2350	
170.000						-.2878								-.1933	
180.000						-.2878	-.2454	-.2071	-.1876	-.1860	-.1741	-.1602	-.1513	-.1485	-.1387

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0058	-.0009	.0048	.0294	.0728	.1088	.1513	.1719	.1940	.1897	.1880	.1668	.1357	.1478	.1808
100.000	-.0303	-.0331	-.0195	.0204	.0432	.0817	.1113	.1303	.1617	.1429	.1606	.1539	.1292	.1566	.1635
110.000	.0000	-.1158	-.0832	-.0449	-.0060	.0404	.0778	.1097	.1391	.1511	.1492	.1431	.1517	.1612	.0000
120.000						.0444								.2074	
130.000						.0047								.2035	
140.000						-.0164								.1962	
150.000						-.0073								.1859	
160.000						-.0207								.1729	
170.000						-.0267								.1606	
180.000	-.1500	-.1610	-.1304	-.1415	-.1052	-.0461	-.0190	.0316	.0637	.0980	.1067	.1137	.1267	.1488	.2831

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0743		
70.000							.0066	-.0675	.0000
80.000							-.0311	-.1287	-.1105
90.000	.1839	.2392	.2126	.1495	.0000	.0000	-.0356	-.1238	-.1107
100.000	.1666	.2045	.1979	.1930	.1369	.0680			
110.000	.2175	.2587	.2622	.2363	.1428	-.0159			
120.000						-.1829			
130.000						.0440			
140.000						.3669			
150.000						.5066			
160.000						.4153			
170.000						.3458			
180.000	.2158	.3703	.4410	.5012	.5532	.6545			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.149 ALPHA (4) = -1.945

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1687	.1242	-.1120												
70.000	.2022	.1483	-.0390												
80.000	.2269	.1140	-.0166												
90.000			-.0861	-.3488	-.5315	-.5796	-.5648	-.4900	-.4038	-.2485	-.1653	-.1101	-.0694	-.0519	-.0298
100.000						-.5784	-.5617	-.5699	-.5401	-.2966	-.1926	-.1496	-.1002	-.0951	-.0440
110.000						-.6993	-.6414	-.6004	-.5053	-.3862	-.2360	-.1866	-.1601	-.1596	-.1146
120.000						-.5531								.0000	
130.000						-.5492								-.3191	
140.000						-.4825								-.3365	
150.000						-.3632								-.2984	
160.000						-.3072								-.2556	
170.000						-.3400								-.2199	
180.000						-.3457	-.2811	-.2365	-.2169	-.2122	-.1975	-.1891	-.1749	-.1740	-.1655

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0098	.0203	.0411	.0876	.1118	.1320	.1568	.1744	.1850	.1752	.1823	.1482	.1102	.1061	.1176
100.000	-.0371	.0096	.0431	.0564	.0837	.1090	.1216	.1390	.1652	.1396	.1690	.1375	.1179	.1263	.1182
110.000	.0000	-.0514	-.0218	-.0009	.0226	.0595	.0783	.1151	.1292	.1319	.1447	.1277	.1251	.1267	.0000
120.000						.0666								.1782	
130.000						.0309								.1800	
140.000						.0160								.1680	
150.000						.0164								.1592	
160.000						.0090								.1500	
170.000						-.0073								.1337	
180.000	-.1541	-.1543	-.1110	-.0725	-.0285	-.0191	-.0199	.0542	.0603	.0697	.1226	.1196	.1173	.1247	.2208

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0693		
70.000							.0088	-.0879	.0000
80.000							-.0239	-.1295	-.1184
90.000	.1308	.1924	.1833	.1147	.0000	.0090	-.0349	-.1264	-.1219
100.000	.1028	.1621	.1469	.1598	.0978	.0409			
110.000	.1615	.2136	.2262	.2000	.1128	-.0268			
120.000						-.1761			
130.000						.0563			
140.000						.3582			
150.000						.4658			
160.000						.3924			
170.000						.3135			
180.000	.1650	.3290	.3926	.4469	.5122	.6201			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.146 ALPHA (5) = .193

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1131	.0874	-.1307												
70.000	.1531	.1225	-.0472												
80.000	.1907	.0978	-.0260												
90.000			-.0701	-.3407	-.5381	-.5783	-.5731	-.5050	-.4179	-.2651	-.1734	-.0898	-.0447	-.0232	-.0707
100.000						-.5779	-.5931	-.5757	-.5284	-.2802	-.1746	-.1265	-.0591	-.0544	-.0650
110.000						-.6916	-.6485	-.6143	-.5280	-.3314	-.2082	-.1490	-.1101	-.1052	-.1054
120.000						-.5781								.0000	
130.000						-.6040								-.2051	
140.000						-.5510								-.2753	
150.000						-.4442								-.3133	
160.000						-.3671								-.2899	
170.000						-.3901								-.2562	
180.000						-.4003	-.3553	-.2902	-.2486	-.2352	-.2262	-.1994	-.1754	-.2047	-.1986

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0181	.1016	.1322	.1503	.1701	.1895	.1738	.1713	.1787	.1599	.1818	.1515	.1056	.0839	.0620
100.000	-.0329	.0867	.1156	.1240	.1619	.1876	.1443	.1392	.1597	.1288	.1820	.1544	.1162	.1115	.0750
110.000	.0000	.0414	.0740	.0909	.1319	.1446	.1116	.1149	.1302	.1290	.1697	.1509	.1348	.1242	.0000
120.000						.1707								.1640	
130.000						.0813								.17 1	
140.000						.0682								.1660	
150.000						.0568								.1577	
160.000						.0523								.1521	
170.000						.0392								.1342	
180.000	-.1668	-.1269	-.0370	.0224	.0569	.0234	-.0077	.0255	.0230	.0604	.1434	.1282	.1186	.1199	.1805

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0596		
70.000							.0097	-.0829	.0000
80.000							-.0228	-.1404	-.1269
90.000	.0780	.1186	.1143	.0760	.0000	.0000	-.0422	-.1387	-.1326
100.000	.0531	.1173	.0986	.1264	.0507	.0062			
110.000	.1229	.1732	.2019	.1690	.0889	-.0408			
120.000						-.1569			
130.000						.0644			
140.000						.3535			
150.000						.4664			
160.000						.3723			
170.000						.2909			
180.000	.1317	.2980	.3570	.3969	.4794	.6002			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.149 ALPHA (8) = 2.365

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1119	.0792	-.1395												
70.000	.1431	.1115	-.0468												
80.000	.1721	.0837	-.0211												
90.000			-.0708	-.3190	-.4990	-.5324	-.4834	-.3827	-.3501	-.3183	-.2377	-.0856	-.0574	-.0395	-.0022
100.000						-.5411	-.5276	-.4496	-.3905	-.3098	-.2287	-.1024	-.0655	-.0469	.0111
110.000						-.6557	-.6081	-.5494	-.4247	-.2896	-.2161	-.1326	-.0862	-.0876	-.0033
120.000						-.5717								.0000	
130.000						-.6147								-.1125	
140.000						-.5778								-.1541	
150.000						-.4918								-.2047	
160.000						-.3952								-.2369	
170.000						-.4160								-.2165	
180.000						-.4270	-.3717	-.3157	-.2910	-.2784	-.2538	-.1980	-.1840	-.1802	-.1721

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0390	.0393	.0668	.0802	.1391	.1620	.1544	.1653	.1759	.1653	.1503	.1152	.0636	.0403	.0206
100.000	.0364	.0825	.0801	.1008	.1314	.1661	.1326	.1518	.1736	.1367	.1573	.1156	.0768	.0699	.0338
110.000	.0000	.0823	.0664	.0778	.1292	.1375	.1187	.1424	.1624	.1591	.1464	.1260	.1044	.0944	.0000
120.000						.1497								.1260	
130.000						.0572								.1407	
140.000						.0811								.1383	
150.000						.0509								.1326	
160.000						.0364								.1326	
170.000						.0146								.1115	
180.000	-.1248	-.0818	-.0281	.0106	.0448	.0104	.0260	.1024	.0999	.0997	.1087	.0917	.0891	.0971	.1559

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0228		
70.000							-.0226	-.1183	.0000
80.000							-.0545	-.1707	-.1672
90.000	.0329	.1151	.0845	.0301	.0000	.0000	-.0733	-.1729	-.1672
100.000	.0119	.0861	.0494	.0891	.0208	-.0397			
110.000	.0808	.1188	.1594	.1421	.0857	-.0815			
120.000						-.1422			
130.000						.0799			
140.000						.3363			
150.000						.4078			
160.000						.3087			
170.000						.2431			
180.000	.0883	.2904	.3222	.3626	.4133	.5155			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.151 ALPHA(7) = 4.480

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0705	.0432	-.1752												
70.000	.1035	.0907	-.0861												
80.000	.1317	.0711	-.0439												
90.000			-.0665	-.3330	-.4126	-.4028	-.3967	-.3942	-.3895	-.3904	-.3010	-.1290	-.0499	-.0231	.0265
100.000						-.4110	-.4186	-.4164	-.4016	-.4044	-.2776	-.1312	-.0559	-.0444	.0324
110.000						-.6058	-.5070	-.4783	-.4382	-.3505	-.2756	-.1385	-.0738	-.0559	.0289
120.000						-.5791								.0000	
130.000						-.6443								-.1001	
140.000						-.6245								-.1296	
150.000						-.5488								-.1337	
160.000						-.4609								-.1422	
170.000						-.4641								-.1539	
180.000						-.4674	-.4186	-.3710	-.3401	-.3120	-.2619	-.1914	-.1657	-.1555	-.1043

X/L	.4900	.4680	.4880	.5050	.9240	.5460	.7810	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0803	.1032	.1222	.1360	.1456	.1716	.1758	.1816	.1820	.1559	.1369	.0932	.0414	.0136	-.0113
100.000	.0770	.0945	.1094	.1379	.1468	.1598	.1640	.1716	.1844	.1528	.1485	.1081	.0683	.0494	.0088
110.000	.0000	.0929	.1179	.1169	.1431	.1558	.1575	.1716	.1734	.1714	.1516	.1212	.0975	.0720	.0000
120.000						.1627								.1101	
130.000						.1142								.1219	
140.000						.1112								.1214	
150.000						.1114								.1230	
160.000						.1026								.1165	
170.000						.0871								.1004	
180.000	-.0844	-.0217	.0147	.0324	.0603	.0722	.0757	.1432	.1148	.1114	.1097	.0940	.0837	.0849	.1464

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0028		
70.000							-.0444	-.1366	.0000
80.000							-.0696	-.1893	-.1944
90.000	-.0121	.0401	.0512	.0096	.0000	.0000	-.0860	-.2024	-.1955
100.000	-.0490	.0320	.0162	.0682	.0098	-.0594			
110.000	.0485	.0948	.1319	.1303	.0596	-.1061			
120.000						-.1411			
130.000						.0962			
140.000						.2942			
150.000						.3642			
160.000						.2713			
170.000						.2487			
180.000	.0393	.2437	.3019	.3405	.3689	.4497			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (P) = 1.190 ALPHA (8) = 8.997

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0298	.0239	-.1740												
70.000	.0868	.0688	-.0907												
60.000	.0965	.0578	-.0512												
90.000			-.0673	-.2905	-.3755	-.4414	-.4197	-.4317	-.3853	-.3032	-.2488	-.1517	-.0784	-.0515	.0117
100.000						-.4370	-.4507	-.4641	-.4387	-.356[illegible]	-.2101	-.1284	-.0770	-.0665	.0217
110.000						-.5027	-.4914	-.5034	-.4959	-.3847	-.1926	-.1163	-.0647	-.0499	.0243
120.000						-.5425								.0000	
130.000						-.6563								-.0523	
140.000						-.6500								-.0821	
150.000						-.5812								-.1072	
160.000						-.4924								-.1307	
170.000						-.4970								-.1336	
180.000						-.5054	-.4845	-.4114	-.3627	-.3309	-.2665	-.1956	-.1550	-.1366	-.0829

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	.0665	.0670	.0899	.1034	.1203	.1233	.1571	.1611	.1550	.1268	.1006	.0504	-.0070	-.0546	-.0559
100.000	.0828	.0736	.0940	.0969	.1197	.1195	.1442	.1546	.1636	.1230	.1155	.0676	.0237	.0037	-.0444
110.000	.0000	.0804	.1019	.0989	.1119	.1205	.1452	.1464	.1628	.1528	.1198	.0888	.0586	.0325	.0000
120.000						.1343								.0757	
130.000						.1125								.0647	
140.000						.0964								.0772	
150.000						.0960								.0776	
160.000						.0837								.0806	
170.000						.0903								.0653	
180.000	-.0905	-.0144	.0083	.0223	.0312	.0690	.1013	.1468	.1113	.1011	.0900	.0719	.0584	.0500	.1051

X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0221		
70.000							-.0720	-.1535	.0000
60.000							-.0847	-.2069	-.2194
90.000	-.0700	-.0143	-.0208	-.0118	.0300	.0000	-.1023	-.2182	-.2178
100.000	-.0830	-.0337	-.0174	.0523	-.0038	-.0843			
110.000	-.0118	.0256	.1179	.1136	.0436	-.1238			
120.000						[illegible]381			
130.000						.1445			
140.000						.2656			
150.000						.3150			
160.000						.2505			
170.000						.2913			
180.000	.3070	.1688	.2980	.2867	.3043	.2814			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (7) = 1.151 ALPHA (9) = 8.699

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0067	-.0035	-.1628												
70.000	.0277	.0588	-.0894												
80.000	.0509	.0495	-.0458												
90.000			-.0470	-.2796	-.3669	-.3969	-.3913	-.3752	-.3026	-.2542	-.2299	-.1815	-.0942	-.0596	.0001
100.000						-.3914	-.4330	-.4143	-.3675	-.2914	-.2295	-.1473	-.0729	-.0687	.0277
110.000						-.4709	-.4714	-.4806	-.4436	-.3724	-.1836	-.1055	-.0578	-.0464	.0452
120.000						-.5552								.0000	
130.000						-.6805								-.0084	
140.000						-.6814								-.0134	
150.000						-.6120								-.0290	
160.000						-.5167								-.0602	
170.000						-.5116								-.0762	
180.000						-.5263	-.4936	-.4399	-.4015	-.3663	-.2584	-.1840	-.1365	-.0926	-.0242

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0769	.0879	.1028	.1197	.1345	.1251	.1457	.1441	.1363	.1039	.0701	.0185	-.0369	-.0596	-.0840
100.000	.0773	.0922	.0981	.1135	.1327	.1221	.1351	.1412	.1492	.0978	.0878	.0342	-.0077	-.0231	-.0737
110.000	.0000	.1072	.1233	.1190	.1278	.1302	.1478	.1537	.1508	.1365	.0988	.0650	.0366	.0105	.0000
120.000						.1431								.0564	
130.000						.1457								.0686	
140.000						.1323								.0650	
150.000						.1274								.0542	
160.000						.1166								.0537	
170.000						.1129								.0474	
180.000	.0079	.0299	.0592	.0686	.0812	.0966	.1298	.1578	.1259	.1125	.0923	.0666	.0482	.0297	.0710

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0677		
70.000							-.1091	-.1891	.0000
80.000							-.1222	-.2411	-.2632
90.000	-.0946	-.0430	-.0233	-.0174	.0000	.0000	-.1308	-.2537	-.2470
100.000	-.1151	-.0500	-.0409	.0442	-.0094	-.0982			
110.000	-.0502	.0170	.1043	.0972	.0180	-.1441			
120.000						-.1036			
130.000						.0895			
140.000						.2794			
150.000						.3120			
160.000						.2887			
170.000						.3769			
180.000	-.0289	.1282	.2004	.2341	.2606	.2122			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.250 ALPHA (1) = -8.397

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2378	.2118	-.0259												
70.000	.2518	.2235	.0442												
80.000	.2826	.1628	.0586												
90.000			-.0354	-.2637	-.3528	-.4746	-.4756	-.4042	-.3650	-.4221	-.2863	-.2208	-.1699	-.1555	-.1460
100.000						-.4762	-.4906	-.4904	-.4593	-.4132	-.3628	-.2906	-.2237	-.2181	-.1729
110.000						-.6147	-.5874	-.5358	-.4483	-.4079	-.3949	-.3683	-.3269	-.3198	-.3190
120.000						-.4179								.0000	
130.000						-.3853								-.3249	
140.000						-.3325								-.2783	
150.000						-.2520								-.2232	
160.000						-.1763								-.1913	
170.000						-.1975								-.1488	
180.000						-.1871	-.1566	-.1267	-.1202	-.1161	-.1078	-.1087	-.1079	-.1130	-.1171

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1137	-.1111	-.1005	-.0942	-.0874	-.0958	-.0871	-.0805	-.0612	-.0369	-.0324	-.0615	-.0976	-.0866	-.0683
100.000	-.1514	-.1436	-.1297	-.1220	-.1166	-.1481	-.1567	-.1682	-.1479	-.1561	-.1143	-.1169	-.1283	-.1075	-.0798
110.000	.0000	-.3061	-.2594	-.2105	-.1801	-.1631	-.1481	-.1323	-.1138	-.0889	-.0667	-.0639	-.0617	-.0552	.0000
120.000						-.1721								-.0801	
130.000						-.2125								-.1201	
140.000						-.2336								-.1277	
150.000						-.2051								-.1145	
160.000						-.1826								-.0950	
170.000						-.1531								-.0842	
180.000	-.1279	-.1330	-.1220	-.1361	-.1324	-.1329	-.1405	-.1375	-.1455	-.1427	-.1151	-.0996	-.0737	-.0579	.0487

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1537		
70.000							.0583	.0003	.0000
80.000							.0121	-.0656	-.0301
90.000	.0264	-.0168	.1336	.1004	.0000	.0000	.0389	-.0299	-.0082
100.000	-.0220	.0355	.0944	.1494	.1212	.0946			
110.000	-.0116	.0927	.1582	.1182	.0813	-.0367			
120.000						-.2368			
130.000						.0187			
140.000						.4319			
150.000						.6072			
160.000						.4691			
170.000						.3140			
180.000	.0490	.1331	.3630	.4496	.5124	.6509			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.251 ALPHA (2) = -6.261

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2062	.1883	-.0345												
70.000	.2253	.2047	.0348												
80.000	.2541	.1493	.0527												
90.000			-.0247	-.2589	-.3876	-.4840	-.4814	-.4205	-.3849	-.4451	-.2978	-.2256	-.1890	-.1747	-.1663
100.000						-.4838	-.4942	-.4946	-.4848	-.4378	-.3711	-.2846	-.2275	-.2195	-.1810
110.000						-.6100	-.5770	-.5345	-.4624	-.4171	-.3987	-.3667	-.3116	-.2946	-.2682
120.000						-.4421								.0000	
130.000						-.4236								-.3347	
140.000						-.3814								-.2989	
150.000						-.3208								-.2517	
160.000						-.2305								-.2142	
170.000						-.2449								-.1813	
180.000						-.2370	-.2016	-.1715	-.1633	-.1556	-.1452	-.1461	-.1450	-.1483	-.1471

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1348	-.1242	-.1117	-.1076	-.1031	-.1049	-.0975	-.0893	-.0646	-.0403	-.0292	-.0541	-.0853	-.0730	-.0371
100.000	-.1585	-.1479	-.1342	-.1252	-.1166	-.1340	-.1379	-.1435	-.1244	-.1348	-.0977	-.1061	-.1206	-.1015	-.0702
110.000	.0000	-.2748	-.2584	-.2263	-.1948	-.1763	-.1621	-.1453	-.1242	-.0989	-.0774	-.0762	-.0722	-.0652	.0000
120.000						-.1808								-.0766	
130.000						-.2133								-.1172	
140.000						-.2320								-.1292	
150.000						-.2232								-.1232	
160.000						-.2063								-.1086	
170.000						-.1798								-.1031	
180.000	-.1540	-.1569	-.1499	-.1614	-.1583	-.1591	-.1682	-.1551	-.1752	-.1714	-.1409	-.1248	-.1005	-.0865	.0154

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1269		
70.000							.0500	-.0107	.0000
80.000							.0048	-.0851	-.0511
90.000	-.0048	-.0267	.0983	.0655	.0000	.0000	.0168	-.0567	-.0392
100.000	-.0237	.0353	.0779	.1190	.0927	.0682			
110.000	-.0006	.0580	.1365	.1040	.0783	-.0405			
120.000						-.2095			
130.000						.0550			
140.000						.4312			
150.000						.5641			
160.000						.4267			
170.000						.2692			
180.000	.0497	.1181	.3173	.3959	.4473	.5729			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.250 ALPHA (3) = -4.139

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1732	.1563	-.0634												
70.000	.1969	.1837	.0100												
80.000	.2227	.1990	.0344												
90.000			-.0237	-.2631	-.4236	-.4880	-.4908	-.4367	-.4072	-.4601	-.3251	-.2452	-.2058	-.1934	-.1792
100.000						-.4882	-.5010	-.5006	-.5000	-.4668	-.3800	-.2850	-.2298	-.2257	-.1901
110.000						-.5991	-.5691	-.5380	-.4894	-.4325	-.4101	-.3571	-.2929	-.2772	-.2455
120.000						-.4604								.0000	
130.000						-.4647								-.3458	
140.000						-.4266								-.3195	
150.000						-.3758								-.2780	
160.000						-.2908								-.2453	
170.000						-.2883								-.2148	
180.000						-.2845	-.2527	-.2244	-.2110	-.2017	-.1890	-.1889	-.1790	-.1815	-.1780

X/L	.4500	.4680	.4860	.5050	.52.0	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1922	-.1362	-.1235	-.1182	-.1137	-.1159	-.0981	-.0756	-.0394	-.0123	-.0067	-.0280	-.0483	-.0417	-.0399
100.000	-.1709	-.1581	-.1423	-.1321	-.1247	-.1290	-.1246	-.1115	-.0792	-.0745	-.0493	-.0618	-.0700	-.0606	-.0567
110.000	.0000	-.2411	-.2323	-.2172	-.197-	-.1816	-.1831	-.1396	-.1121	-.0828	-.0648	-.0674	-.0636	-.0567	.0000
120.000						-.1716								-.0459	
130.000						-.2036								-.0804	
140.000						-.2097								-.1046	
150.000						-.2143								-.1130	
160.000						-.2207								-.1166	
170.000						-.2004								-.1188	
180.000	-.1820	-.1569	-.1783	-.1880	-.1826	-.1820	-.1946	-.1575	-.1932	-.1852	-.1553	-.1489	-.1291	-.1158	-.0112

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1035		
70.000							.0388	-.0381	.0000
80.000							.0089	-.0940	-.0815
90.000	-.0250	-.0042	.0914	.0813	.0000	.0000	-.0090	-.0893	-.0791
100.000	-.0299	.0318	.0725	.0913	.0599	.0357			
110.000	-.0063	.0575	.1261	.0978	.0621	-.0498			
120.000						-.1846			
130.000						.0850			
140.000						.4217			
150.000						.5044			
160.000						.3838			
170.000						.2320			
180.000	.0213	.1201	.2919	.3532	.3985	.4947			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE3022)

MACH (8) = 1.251 ALPHA (4) = -2.032

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1409	.1269	-.0942												
70.000	.1646	.1646	-.0102												
80.000	.1933	.1419	.0212												
90.000			-.0184	-.2618	-.4352	-.4986	-.5051	-.4559	-.4298	-.4626	-.3493	-.2596	-.2237	-.2094	-.1867
100.000						-.4990	-.5152	-.5158	-.5189	-.5008	-.3845	-.2852	-.2432	-.2415	-.1974
110.000						-.6013	-.5769	-.5539	-.5220	-.4591	-.4219	-.3503	-.2792	-.2700	-.2342
120.000						-.4813								.0000	
130.000						-.4919								-.3573	
140.000						-.4663								-.3419	
150.000						-.4195								-.3074	
160.000						-.3454								-.2757	
170.000						-.3258								-.2444	
180.000						-.3228	-.2927	-.2663	-.2508	-.2401	-.2277	-.2248	-.2154	-.2133	-.2068

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1563	-.1353	-.1164	-.1081	-.1005	-.1019	-.0839	-.0590	-.0145	.0082	.0024	-.0175	-.0394	-.0394	-.0308
100.000	-.1780	-.1606	-.1379	-.1218	-.1095	-.1109	-.1028	-.0811	-.0392	-.0255	-.0163	-.0316	-.0416	-.0382	-.0323
110.000	.0000	-.2081	-.1952	-.1529	-.1688	-.1604	-.1477	-.1232	-.0909	-.0645	-.0515	-.0569	-.0519	-.0527	.0000
120.000						-.1459								-.0250	
130.000						-.1856								-.0370	
140.000						-.2027								-.0585	
150.000						-.2153								-.0712	
160.000						-.2380								-.0792	
170.000						-.2280								-.0952	
180.000	-.2150	-.2169	-.2111	-.2195	-.2152	-.2159	-.2232	-.1646	-.1979	-.1826	-.1517	-.1414	-.1147	-.1029	.0011

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0681		
70.000							.0135	-.0649	.0000
80.000							-.0132	-.1282	-.1108
90.000	-.0216	.0063	.0701	.0285	.0000	.0000	-.0374	-.1206	-.1125
100.000	-.0257	.0195	.0444	.0751	.0324	-.0094			
110.000	.0026	.0570	.1239	.0988	.0499	-.0710			
120.000						-.1756			
130.000						.0963			
140.000						.4037			
150.000						.4665			
160.000						.3517			
170.000						.2422			
180.000	.0206	.1181	.2778	.3339	.3718	.5011			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.250 ALPHA (5) = .149

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1511	.0988	-.1046												
70.000	.1295	.1405	-.0255												
80.000	.1586	.1216	.0150												
90.000			-.0117	-.2549	-.4375	-.5160	-.5211	-.4774	-.4536	-.4774	-.3714	-.2834	-.2322	-.2114	-.1900
100.000						-.5173	-.5309	-.5331	-.5392	-.5406	-.4854	-.3041	-.2412	-.2349	-.1968
110.000						-.5972	-.5766	-.5651	-.5484	-.4963	-.4564	-.3458	-.2609	-.2470	-.2189
120.000						-.5516								.0000	
130.000						-.5284								-.3766	
140.000						-.5095								-.3680	
150.000						-.4623								-.3433	
160.000						-.3891								-.3161	
170.000						-.3702								-.2775	
180.000						-.3710	-.3383	-.3115	-.2946	-.2811	-.2695	-.2678	-.2543	-.2461	-.2317

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.6000	.6180	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1547	-.1271	-.1020	-.0924	-.0825	-.0848	-.0625	-.0268	.0097	.0231	.0148	-.0187	-.0304	-.0374	.0455
100.000	-.1711	-.1462	-.1216	-.1036	-.0924	-.0936	-.0864	-.0585	-.0185	-.0199	-.0015	-.0197	-.0344	-.0425	.0362
110.000	.0000	-.1707	-.1503	-.1321	-.1188	-.1151	-.1059	-.0904	-.0587	-.0409	-.0212	-.0334	-.0346	-.0350	.0000
120.000						-.1005								-.0001	
130.000						-.1306								-.0127	
140.000						-.1546								-.0139	
150.000						-.1669								-.0253	
160.000						-.2008								-.0402	
170.000						-.2231								-.0611	
180.000	-.2339	-.2384	-.2294	-.2391	-.2356	-.2363	-.2305	-.1779	-.1830	-.1599	-.1306	-.1157	-.0878	-.0715	.0186

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8625	.9000	.9400
PHI									
60.000							.0258		
70.000							-.0115	-.0845	.0000
80.000							-.0354	-.1456	-.1377
90.000	-.0192	.0002	.0409	-.0053	.0000	.0000	-.0620	-.1545	-.1481
100.000	-.0510	-.0022	.0195	.0495	-.0015	-.0465			
110.000	-.0123	.0565	.1178	.0895	.0442	-.0735			
120.000						-.1513			
130.000						.1199			
140.000						.3905			
150.000						.4118			
160.000						.3067			
170.000						.2267			
180.000	.0058	.1121	.2449	.2937	.3301	.4728			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.250 ALPHA (8) = 2.314

SECTION (1)OPB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0749	.0589	-.1123												
70.000	.0975	.1095	-.0338												
80.000	.1070	.1125	.0113												
90.000			.0008	-.2480	-.4500	-.5214	-.5321	-.4953	-.4746	-.5169	-.3989	-.3052	-.2492	-.2188	-.1811
100.000						-.5208	-.5399	-.5448	-.5561	-.5653	-.4461	-.3011	-.2485	-.2308	-.1901
110.000						-.5495	-.5771	-.5732	-.5651	-.5344	-.4858	-.3422	-.2654	-.2417	-.2059
120.000						-.5114								.0000	
130.000						-.5529								-.3919	
140.000						-.5383								-.3927	
150.000						-.4937								-.3718	
160.000						-.4252								-.3454	
170.000						-.4067								-.3188	
180.000						-.4073	-.3808	-.3515	-.3328	-.3192	-.3076	-.3070	-.2990	-.2926	-.2671

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1363	-.1112	-.0868	-.0815	-.0766	-.0872	-.0651	-.0165	.0217	.0347	.0190	-.0137	-.047-	-.0448	-.0579
100.000	-.1603	-.1398	-.1157	-.0968	-.0799	-.0872	-.0802	-.0466	.0115	.0032	.0182	-.0107	-.0284	-.0193	-.0450
110.000	.0000	-.1605	-.1398	-.1195	-.0999	-.0962	-.0814	-.0611	-.0254	-.0053	-.0029	-.0177	-.0113	-.0083	.0000
120.000						-.0770								.0140	
130.000						-.0944								.0223	
140.000						-.1143								.0253	
150.000						-.1280								.0192	
160.000						-.1621								.0058	
170.000						-.2053								-.0141	
180.000	-.2603	-.2558	-.2501	-.2565	-.2511	-.2470	-.2221	-.1430	-.1647	-.1261	-.1031	-.0866	-.0603	-.0398	.0589

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0098		
70.000							-.0521	-.1078	.0000
80.000							-.0691	-.1629	-.1669
90.000	-.0579	.0094	.0055	-.0360	.0000	.0000	-.0912	-.1750	-.1712
100.000	-.0854	-.0382	-.0171	.0214	-.0296	-.0806			
110.000	-.0405	.0049	.0924	.0834	.0341	-.0842			
120.000						-.0921			
130.000						.0892			
140.000						.3095			
150.000						.3030			
160.000						.2274			
170.000						.1766			
180.000	-.0013	.0997	.1988	.2444	.2713	.4196			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (6) = 1.250 ALPHA (7) = 4.441

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1645	.2035	.2425	.2640	.2820	.3010	.3195	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0582	.0199	-.1415												
70.000	.0779	.0674	-.0496												
80.000	.0848	.0786	.0008												
90.000			.0071	-.2458	-.4526	-.5291	-.5375	-.5108	-.4929	-.5031	-.4041	-.3317	-.2432	-.2143	-.1651
100.000						-.5301	-.5462	-.5537	-.5651	-.5790	-.4395	-.3065	-.2467	-.2370	-.1610
110.000						-.5856	-.5757	-.5779	-.5765	-.5682	-.5041	-.3160	-.2589	-.2419	-.2074
120.000						-.5262								.0000	
130.000						-.5769								-.4153	
140.000						-.5701								-.4025	
150.000						-.5276								-.3863	
160.000						-.4652								-.3607	
170.000						-.4427								-.3415	
180.000						-.4457	-.4171	-.3862	-.3654	-.3494	-.3386	-.3338	-.3237	-.3211	-.2958

X/L	.4500	.4680	.4865	.5050	.5240	.5460	.5610	.5800	5980	.6170	.6360	.6540	.6730	.6950	.7190
PHI															
90.000	-.1201	-.1029	-.0847	-.0864	-.0849	-.0918	-.0469	-.0117	.0130	.0265	.0174	-.0109	-.0537	-.0619	-.0739
100.000	-.1501	-.1267	-.1005	-.0888	-.0817	-.0853	-.0553	-.0304	.0130	.0187	.0266	-.0111	-.0367	-.0824	-.0763
110.000	.0000	-.1537	-.1252	-.1067	-.0864	-.0829	-.0615	-.0253	-.0057	.0182	.0192	-.0006	-.0113	-.0459	-.0530
120.000						-.0698								.0176	
130.000						-.0733								.0223	
140.000						-.0840								.0253	
150.000						-.0990								.0298	
160.000						-.1115								.0337	
170.000						-.1420								.0257	
180.000	-.2844	-.2774	-.2668	-.2709	-.2457	-.1865	-.1649	-.0960	-.1113	-.0852	-.0723	-.0579	-.0292	-.0231	.1684

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0196		
70.000							-.0607	-.1235	.0000
80.000							-.0907	-.1803	-.1916
90.000	-.0845	-.0082	-.0441	-.0539	.0000	.0000	-.1139	-.1988	-.1913
100.000	-.1151	-.0839	-.0613	.0246	-.0130	-.0839			
110.000	-.0596	-.0592	.0660	.1055	.0701	-.0852			
120.000						-.0601			
130.000						.1246			
140.000						.2198			
150.000						.2251			
160.000						.1763			
170.000						.1672			
180.000	-.0335	.0711	.1584	.1897	.2303	.3190			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (8) = 1.250 ALPHA (8) = 6.588

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0304	-.0170	-.1753												
70.000	.0462	.0188	-.0891												
80.000	.0440	.0318	-.0050												
90.000			.0021	-.2312	-.4516	-.5268	-.5399	-.5252	-.4981	-.4180	-.3793	-.3214	-.2328	-.1953	-.1603
100.000						-.5268	-.5476	-.5565	-.5716	-.5272	-.3915	-.3146	-.2432	-.2297	-.1491
110.000						-.5775	-.5744	-.5816	-.5801	-.5907	-.4042	-.2942	-.2555	-.2436	-.1845
120.000						-.5295								.0000	
130.000						-.5911								-.3539	
140.000						-.5930								-.4087	
150.000						-.5512								-.4022	
160.000						-.4994								-.3830	
170.000						-.4739								-.3602	
180.000						-.4734	-.4538	-.4190	-.3980	-.3804	-.3665	-.3600	-.3476	-.3379	-.3050

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1225	-.1253	-.1138	-.1087	-.0995	-.0932	-.0481	-.0098	.0208	.0253	.0119	-.0242	-.0608	-.0809	-.1038
100.000	-.1317	-.1329	-.1198	-.1067	-.0942	-.0866	-.0630	-.0246	.0190	.0109	.0182	-.0202	-.0475	-.0547	-.0955
110.000	.0000	-.1245	-.1034	-.0956	-.0866	-.0799	-.0499	-.0232	.0044	.0273	.0192	-.0112	-.0198	-.0324	.0000
120.000						-.0517								-.0053	
130.000						-.0563								.0192	
140.000						-.0650								-.0049	
150.000						-.0748								-.0067	
160.000						-.0858								-.0041	
170.000						-.0987								-.0061	
180.000	-.2945	-.2867	-.2656	-.2325	-.1717	-.1338	-.1145	-.0599	-.0842	-.0730	-.0596	-.0473	-.0355	-.0158	.0385

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0457		
70.000							-.0865	-.1448	.0000
80.000							-.1103	-.1968	-.2132
90.000	-.1260	-.0711	-.0775	-.0598	.0000	.0000	-.1342	-.2151	-.2127
100.000	-.1508	-.1338	-.1013	.0181	-.0205	-.1020			
110.000	-.1177	-.1068	.0575	.1070	.0460	-.1161			
120.000						-.0263			
130.000						.1110			
140.000						.2578			
150.000						.2338			
160.000						.2003			
170.000						.2588			
180.000	-.0892	.0130	.1542	.1818	.2029	.1765			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (8) = 1.249 ALPHA (9) = 8.716

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.30	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0084	-.0573	-.2220												
90.000	.0087	-.0283	-.1360												
80.000	.0071	-.0137	-.0393												
90.000			-.0149	-.2396	-.4607	-.5349	-.5461	-.5347	-.4036	-.3625	-.3274	-.2778	-.2137	-.1853	-.1796
100.000						-.5353	-.5545	-.5650	-.5396	-.4052	-.3725	-.2983	-.2088	-.2088	-.1528
110.000						-.5841	-.5827	-.5896	-.5905	-.5085	-.3654	-.2965	-.2278	-.2154	-.1450
120.000						-.5404								.0000	
130.000						-.6085								-.2629	
140.000						-.6135								-.3341	
150.000						-.5774								-.4[illegible]4	
160.000						-.5254								-.3938	
170.000						[illegible]5006								-.3714	
180.000						-.5051	-.4831	-.4510	-.4268	-.4095	-.3965	-.3837	-.3581	-.3471	-.3098

X/L	.4500	.4680	.4860	5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6820	.7100
PHI															
90.000	-.1489	-.1552	-.1392	-.1278	-.1027	-.0628	-.0448	-.0043	.0172	.0105	-.0093	-.0530	-.0936	-.1148	-.1380
100.000	-.1481	-.1599	-.1440	-.1268	-.1057	-.0767	-.0566	-.0207	.0186	-.0025	.0008	-.0426	-.0721	-.0815	-.1293
110.000	.0000	-.1343	-.1209	-.1139	-.0863	-.0718	-.0512	-.0155	.0101	.0166	.0021	-.0271	-.0432	-.0613	.0000
120.000						-.0407								-.0231	
130.000						-.0348								-.0013	
140.000						-.0404								-.0125	
150.000						-.0552								-.0191	
160.000						-.0727								-.0233	
170.000						-.0827								-.0[illegible]3	
180.000	-.2944	-.2619	-.1983	-.1476	-.1194	-.0948	-.0907	-.0492	-.0743	-.0779	-.0611	-.0482	-.0378	-.0[illegible]4	.0037

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0706		
90.000							-.1069	-.1628	.0000
80.000							-.1245	-.2172	-.2376
90.000	-.1448	-.1085	-.1183	-.0870	.0000	.0000	-.1468	-.2349	-.2721
100.000	-.1732	-.1708	-.1355	.0062	-.0225	-.1216			
110.000	-.1497	-.1395	.0410	.0841	.0178	-.1394			
120.000						-.0180			
130.000						.1434			
140.000						.2672			
150.000						.2879			
160.000						.2483			
170.000						.3408			
180.000	-.1229	-.0128	.1149	.1638	.2537	.1496			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.400 ALPHA (1) = -8.566

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2703	.2843	.0578												
70.000	.2781	.2978	.1311												
80.000	.3022	.2422	.1491												
90.000			.0773	-.1390	-.2359	-.3467	-.3436	-.3079	-.2905	-.3648	-.2884	-.1981	-.1312	-.1136	-.1059
100.000						-.3490	-.3536	-.3553	-.3531	-.3259	-.2693	-.2738	-.2035	-.1848	-.1310
110.000						-.4666	-.4509	-.4314	-.3648	-.3146	-.2867	-.2839	-.2784	-.2720	-.2320
120.000						-.3071								.0000	
130.000						-.2854								-.2320	
140.000						-.2555								-.1904	
150.000						-.2198								-.1474	
160.000						-.1527								-.1104	
170.000						-.1356								-.0839	
180.000						-.1219	-.0872	-.0692	-.0625	-.0561	-.0475	-.0509	-.0534	-.0547	-.0577

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0738	-.0635	-.0532	-.0554	-.0548	-.0616	-.0572	-.0502	-.0424	-.0168	.0042	-.0067	-.0385	-.0478	-.0531
100.000	-.1130	-.0968	-.0835	-.0745	-.0713	-.0913	-.0964	-.1054	-.0956	-.1196	-.0787	-.0758	-.0839	-.0781	-.0946
110.000	.0000	-.2458	-.2475	-.2180	-.1777	-.1516	-.1327	-.1141	-.0952	-.0747	-.0501	-.0351	-.0335	-.0378	.0000
120.000						-.1550								-.0589	
130.000						-.2159								-.0939	
140.000						-.1917								-.1035	
150.000						-.1417								-.0894	
160.000						-.1210								-.0800	
170.000						-.0968								-.0816	
180.000	-.0830	-.0868	-.0811	-.0745	-.0724	-.0785	-.0879	-.1060	-.0887	-.0900	-.0735	-.0773	-.0716	-.0710	.0165

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1775		
70.000							.0974	.0351	.0000
80.000							.0250	-.0560	-.0189
90.000	-.0318	-.0378	.0071	.0533	.0000	.0000	-.0018	-.0513	-.0080
100.000	-.0813	-.0478	.0409	.0920	.0853	.0448			
110.000	-.0869	.0049	.0645	.0853	.0678	-.0318			
120.000						-.1418			
130.000						.1076			
140.000						.4822			
150.000						.5600			
160.000						.4927			
170.000						.3095			
180.000	-.0203	.0649	.2373	.3734	.4492	.6234			

AES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.491 ALPHA (2) = -6.429

SECTION (11048. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2357	.2585	.0426												
70.000	.2467	.2811	.1183												
80.000	.2678	.2617	.1433												
90.000			.0872	-.1349	-.2920	-.3621	-.3675	-.3305	-.3093	-.3804	-.3207	-.2264	-.1600	-.1343	-.12
100.000						-.3617	-.3728	-.3785	-.3811	-.3546	-.3119	-.2896	-.2224	-.2003	-.1417
110.000						-.4527	-.4539	-.4401	-.3908	-.3407	-.3042	-.2903	-.2827	-.2750	-.2173
120.000						-.3240								.0000	
130.000						-.3143								-.2527	
140.000						-.2920								-.216*	
150.000						-.2539								-.177	
160.000						-.1995								-.143.	
170.000						-.1746								-.1164	
180.000						-.1606	-.1326	-.1154	-.1051	-.1002	-.0864	-.0921	-.0895	-.0870	-.0824
X/L	.450	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6840	.7150
PHI															
90.000	-.0925	-.0883	-.0770	-.0753	-.0759	-.0[illegible]	.0684	-.0638	.0527	-.0277	.0035	-.0177	-.0413	.0527	.0448
100.000	-.1225	-.1145	-.1015	-.0912	-.0859	-.0969	-.0966	-.1011	-.0915	-.1065	-.0753	-.0778	-.0845	-.0892	-.1077
110.000	.0000	-.2197	-.2292	-.2233	.1969	-.1747	-.1523	-.1329	-.1155	-.0945	-.0757	-.0611	-.0550	-.0592	-.0[illegible]
120.000						-.1607								-.0648	
130.000						-.2145								-.1024	
140.000						-.2053								-.1170	
150.000						-.1654								-.1102	
160.000						-.1540								-.1008	
170.000						-.1312								-.043	
180.000	-.0964	-.1002	-.0919	-.1062	-.1059	-.1137	-.1227	-.1279	-.1258	-.1203	-.1087	-.1116	-.1022	-.[illegible]	-.0106

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1310		
70.000							.0636	.0121	.0000
80.000							.0076	-.0671	-.0384
90.000	-.0826	-.0674	.0313	.0286	.0000	.0000	-.0331	-.0784	-.0355
100.000	-.0663	-.0599	.0330	.0604	.0400	.0141			
110.000	-.0715	-.0312	.0803	.0712	.0457	-.0475			
120.000						-.1426			
130.000						.1003			
140.000						.4455			
150.000						.4917			
160.000						.4267			
170.000						.2669			
180.000	-.0468	.0293	.1968	.3214	.3871	.5392			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.400 ALPHA (3) = -4.194

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.2048	.2234	.0183												
70.000	.2217	.2502	.0992												
80.000	.2395	.2422	.1502												
90.000			.0943	-.1362	-.2656	-.3737	-.3829	-.3512	-.3387	-.4252	-.3599	-.2537	-.1852	-.1626	-.1402
100.000						-.3731	-.3880	-.3925	-.4013	-.4018	-.3696	-.3210	-.2305	-.2166	-.1564
110.000						-.4613	-.4550	-.4424	-.4104	-.3686	-.3449	-.3338	-.3114	-.2807	-.2177
120.000						-.3416								.0000	
130.000						-.3462								-.2684	
140.000						-.3264								-.2439	
150.000						-.2921								-.2069	
160.000						-.2443								-.1798	
170.000						-.2149								-.1490	
180.000						-.2028	-.1797	-.1598	-.1509	-.1412	-.1260	-.1268	-.1236	-.1270	-.1245

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1174	-.1127	-.0986	-.0976	-.0954	-.0955	-.0828	-.0728	-.0563	-.0331	-.0179	-.0265	-.0530	-.0634	-.0547
100.000	-.1347	-.1278	-.1165	-.1074	-.1014	-.1059	-.1018	-.0978	-.0821	-.0840	-.0580	-.0592	-.0715	-.0732	-.0639
110.000	.0000	-.2065	-.2070	-.2102	-.1946	-.1867	-.1672	-.1456	-.1268	-.1024	-.0886	-.0795	-.0732	-.0770	.0000
120.000						-.1612								-.0621	
130.000						-.1996								-.0949	
140.000						-.2309								-.1185	
150.000						-.1944								-.1224	
160.000						-.1773								-.1187	
170.000						-.1579								-.1251	
180.000	-.1327	-.1308	-.1233	-.1342	-.1340	-.1418	-.1528	-.1549	-.1624	-.1637	-.1512	-.1495	-.1341	-.1274	-.0411

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
80.000							.0963		
70.000							.0366	-.0064	.0000
80.000							-.0050	-.0747	-.0598
90.000	-.0846	-.0868	.0165	.0203	.0000	.0000	-.0545	-.1015	-.0663
100.000	-.0751	-.0897	.0175	.0437	.0203	-.0064			
110.000	-.0784	-.0382	.0701	.0669	.0352	-.0518			
120.000						-.1313			
130.000						.1060			
140.000						.4150			
150.000						.4206			
160.000						.3579			
170.000						.2386			
180.000	-.0882	.0127	.1773	.2709	.3230	.4577			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (0) = 1.401 ALPHA (4) = -2.149

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1840	.1607	-.0019												
70.000	.1996	.2042	.0807												
80.000	.2118	.2567	.1183												
90.000			.0963	-.1336	-.3129	-.3820	-.3908	-.3648	-.3549	-.4410	-.4196	-.3073	-.2108	-.1850	-.1
100.000						-.3829	-.3972	-.4035	-.4128	-.4221	-.3961	-.3723	-.2695	-.2368	-.1
110.000						-.4569	-.4513	-.4414	-.4226	-.3892	-.3615	-.3510	-.3461	-.3308	-.
120.000						-.3575								.0000	
130.000						-.3740								-.2402	
140.000						-.3579								-.2644	
150.000						-.3245								-.2	
160.000						-.2801								-.2	
170.000						-.2478								-.1	
180.000						-.2378	-.2158	-.1943	-.1859	-.1742	-.1	-.1636	-.1	-.1	-.1

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6	.7100
PHI															
90.000	-.1359	-.1213	-.1123	-.1095	-.1042	-.0	-.0856	-.0764	-.0576	-.0324	-.0034	-.0238	-.0	-.0	-.0413
100.000	-.1450	-.1366	-.1230	-.1155	-.1	-.1	-.1012	-.0906	-.0703	-.0	-.0549	-.0359	-.0	-.0	-.0
110.000	.0000	-.1868	-.1802	-.1787	-.1713	-.1783	-.1638	-.1504	-.1306	-.1079	-.0862	-.0	-.0	-.0	.0000
120.000						-.1528								-.0469	
130.000						-.1974								-.0	
140.000						-.2								-.1	
150.000						-.2128								-.1147	
160.000						-.1								-.1	
170.000						-.1767								-.1	
180.000	-.1813	-.1600	-.1487	-.1577	-.1542	-.1	-.1753	-.1694	-.1	-.1	-.1	-.1	-.1629	-.1	-.0613

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0611		
70.000							.0080	-.0253	.0000
80.000							-.0	-.0690	-.0906
90.000	-.0	-.0959	.0201	.0134	.0000	.0000	-.0651	-.1206	-.0999
100.000	-.0791	-.0819	.0213	.0447	.0085	-.0236			
110.000	-.0822	-.0236	.0795	.0694	.0423	-.0449			
120.000						-.1137			
130.000						.1247			
140.000						.3873			
150.000						.3512			
160.000						.3103			
170.000						.2066			
180.000	-.0588	.0177	.1719	.2345	.2725	.3929			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.401 ALPHA (5) = -.016

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1629	.1312	-.0202												
70.000	.1827	.1650	.0594												
80.000	.1908	.1603	.1059												
90.000			.0974	-.1290	-.2622	-.3831	-.3919	-.3735	-.3666	-.4420	-.4314	-.3993	-.2872	-.2276	-.1723
100.000						-.3836	-.4014	-.4076	-.4168	-.4 99	-.4122	-.3858	-.3452	-.3078	-.1957
110.000						-.4497	-.4481	-.4426	-.4295	-.4059	-.3716	-.3558	-.3524	-.3531	-.2742
120.000						-.3698								.0000	
130.000						-.3969								-.2876	
140.000						-.3844								-.2865	
150.000						-.3499								-.2584	
160.000						-.3053								-.2342	
170.000						-.2762								-.2129	
180.000						-.2715	-.2512	-.2275	-.2163	-.2044	-.1962	-.1949	-.1925	-.1934	-.1934

X/L	.4500	.4630	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1443	-.1309	-.1168	-.1115	-.1039	-.0947	-.0771	-.0579	-.0364	-.0145	-.0049	-.0222	-.0474	-.0498	-.0514
100.000	-.1593	-.1421	-.1283	-.1190	-.1075	-.1003	-.0848	-.0683	-.0422	-.0306	-.0120	-.0179	-.0368	-.0358	-.0483
110.000	.0000	-.1883	-.1702	-.1594	-.1455	-.1426	-.1275	-.1140	-.0956	-.0725	-.0589	-.0562	-.0525	-.0587	.0000
120.000						-.1521								-.0345	
130.000						-.2099								-.0377	
140.000						-.2564								-.0614	
150.000						-.2313								-.0848	
160.000						-.2105								-.1085	
170.000						-.1951								-.1429	
180.000	-.2021	-.1979	-.1830	-.1815	-.1789	-.1817	-.1921	-.1682	-.2071	-.2086	-.1988	-.1982	-.1851	-.1736	-.0741

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0249		
70.000							-.0199	-.0561	.0000
80.000							-.0447	-.1077	-.1135
90.000	-.0807	-.0900	.0052	.0056	.0000	.0000	-.0720	-.1257	-.1195
100.000	-.0836	-.0687	.0043	.0453	.0037	-.0392			
110.000	-.0575	-.0206	.0752	.0770	.0437	-.0434			
120.000						-.0871			
130.000						.1219			
140.000						.3554			
150.000						.3474			
160.000						.2457			
170.000						.2179			
180.000	-.0439	.0215	.1667	.2289	.2562	.4463			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (PEB022)

MACH (9) = 1.399 ALPHA (6) = 2.224

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2810	.3200	.3590	.3980	.4370	.4760	.5150	.5540	.5930
PHI														
60.000	.1553	.1769	-.0529											
70.000	.1673	.1344	.0298											
80.000	.1728	.1365	.0913											
90.000			.0972	-.1217	-.2744	-.3849	-.3375	-.3856	-.3801	-.4439	-.4451	-.4304	-.3405	-.2663
100.000						-.3863	-.4042	-.4131	-.4275	-.4423	-.4368	-.4068	-.3697	-.3459
110.000						-.4409	-.4389	-.4335	-.4381	-.4317	-.4115	-.3689	-.3643	-.3711
120.000						-.3892								-.3
130.000						-.4204								-.29
140.000						-.4132								-.3
150.000						-.3787								-.27
160.000						-.3328								-.2
170.000						-.3166								-.24
180.000						-.3036	-.2851	-.2623	-.2492	-.2358	-.2265	-.2275	-.2218	-.2256

X/L	.4500	.4690	.4880	.5070	.5260	.5450	.5640	.5830	.6020	.6210	.6400	.6590	.6780	.6970
PHI														
90.000	-.1575	-.1430	-.1227	-.1104	-.0955	-.1791	-.0430	.0451	-.0266	-.1113	-.1	-.1255	-.0526	-.1547
100.000	-.1720	-.1500	-.1315	-.1183	-.0991	-.1961	.0637	-.0537	-.0315	-.1284	-.0151	-.1297	-.0376	-.1568
110.000	-.0906	-.1842	-.1610	-.1412	-.1242	-.1177	-.0942	-.0658	-.0403	.0119	-.0911	-.0188	-.0265	-.0835
120.000						-.1491								-.0
130.000						-.1362								-.0
140.000						-.2562								-.1
150.000						-.2535								-.1
160.000						-.2373								-.1
170.000						-.2197								-.1
180.000	-.2300	-.2329	-.2193	-.2164	-.2085	-.2155	-.2147	-.1638	-.2273	-.2253	-.2136	-.2017	-.1793	-.1461

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0651		
70.000							-.0460	-.0810	.0020
80.000							-.0748	-.1290	-.1350
90.000	-.0823	-.0321	.0134	-.0128	.0000	.0000	-.0959	-.1403	-.1334
100.000	-.0909	-.0727	-.0174	.0358	.0053	-.0478			
110.000	-.0667	-.0454	.0472	.0790	.0548	-.0446			
120.000						-.0367			
130.000						.1165			
140.000						.2945			
150.000						.2328			
160.000						.1458			
170.000						.1557			
180.000	-.0374	-.0068	.1452	.1822	.2045	.2650			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (9) = 1.400 ALPHA (7) = 4.272

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1465	.0874	-.0875												
70.000	.1564	.1150	.0013												
80.000	.1518	.1347	.0835												
90.000			.0986	-.1154	-.2916	-.3886	-.4008	-.3922	-.3898	-.4537	-.4507	-.4459	-.3970	-.3159	-.2010
100.000						-.3892	-.4065	-.4163	-.4321	-.4493	-.4514	-.4270	-.3876	-.3762	-.2257
110.000						-.4316	-.4349	-.4389	-.4402	-.4474	-.4122	-.3836	-.3742	-.3768	.3081
120.000						-.3871								.0000	
130.000						-.4364								-.3121	
140.000						-.4349								-.3115	
150.000						-.3988								-.2987	
160.000						-.3533								-.2814	
170.000						-.3302								-.2623	
180.000						-.3334	-.3141	-.2889	-.2733	-.2604	-.2512	-.2544	-.2476	-.2493	-.2459

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1678	-.1416	-.1191	-.0991	-.0795	-.0656	-.0503	-.0313	-.0127	-.0058	.0017	-.0248	-.0575	-.0665	-.0739
100.000	-.1833	-.1540	-.1327	-.1110	-.0933	-.0795	-.0678	-.0546	-.0250	-.0240	.0001	-.0146	-.0354	-.0406	-.0628
110.000	.0000	-.1686	-.1457	-.1242	-.1052	-.0855	-.0684	-.0528	-.0321	-.0188	-.0035	-.0092	-.0181	-.0292	.0000
120.000						-.1222								-.0296	
130.000						-.1559								-.0285	
140.000						-.2258								-.0204	
150.000						-.2658								-.0221	
160.000						-.2544								-.0283	
170.000						-.2385								-.0521	
180.000	-.2472	-.2476	-.2348	-.2376	-.2276	-.2291	-.2354	-.1834	-.2400	-.2348	-.2010	-.1614	-.1215	-.0838	.0106

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0164		
70.000							-.0604	-.0868	.0000
80.000							-.0946	-.1416	-.1534
90.000	-.0739	.0070	-.0402	-.0435	.0000	.0000	-.1128	-.1696	-.1567
100.000	-.1019	-.0846	-.0712	.0318	.0166	-.0451			
110.000	-.0804	-.0695	.0220	.0851	.0744	-.0462			
120.000						-.0086			
130.000						.1364			
140.000						.2121			
150.000						.1735			
160.000						.1440			
170.000						.1357			
180.000	-.0530	-.0248	.1082	.1380	.1742	.2738			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.400 ALPHA (8) = 6.421

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1187	.0595	-.1259												
70.000	.1210	.0861	-.0443												
80.000	.1180	.1022	.0249												
90.000			.0973	-.1123	-.3120	-.3891	-.4020	-.4005	-.3995	-.4536	-.4475	-.4513	-.3652	-.2795	-.1[illegible]
100.000						-.3915	-.4050	-.4153	-.4331	-.4432	-.4563	-.4455	-.3999	-.3369	-.1978
110.000						-.4293	-.4289	-.4380	-.4426	-.4582	-.4377	-.3967	-.3795	-.3750	-.2260
120.000						-.3925								-.[illegible]000	
130.000						-.4500								-.3193	
140.000						-.4572								-.321[illegible]	
150.000						-.4234								-.313[illegible]	
160.000						-.3817								-.2933	
170.000						-.3597								-.2811	
180.000						-.3569	-.3435	-.3192	-.3029	-.2890	-.2795	-.2784	-.2714	-.[illegible]3	.2631

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.71[illegible]
PHI															
90.000	-.1497	-.1247	-.1021	-.0836	-.0711	-.[illegible]717	-.0529	-.0436	-.0295	-.[illegible]091	-.[illegible]016	-.[illegible]280	-.0641	-.[illegible]783	-.0937
100.000	-.1662	-.1408	-.1204	-.1009	-.0847	-.[illegible]788	-.0667	-.0545	-.0[illegible]59	-.[illegible]270	-.[illegible]731	-.[illegible]150	-.0[illegible]478	-.[illegible]1[illegible]	-.0842
110.000	.0000	-.1494	-.1303	-.1138	-.0958	-.0843	-.0666	-.0556	-.0399	-.[illegible]185	-.[illegible]001	-.[illegible]089	-.0216	-.[illegible]372	-.[illegible]007
120.000						-.[illegible]076								-.[illegible]360	
130.000						-.1142								-.[illegible]322	
140.000						-.1453								-.0295	
150.000						-.1857								-.[illegible]2[illegible]	
160.000						-.2402								-.[illegible]266	
170.000						-.2460								-.[illegible]716	
180.000	-.2817	-.2583	-.2472	-.2449	-.2387	-.2410	-.2472	-.1880	-.2039	-.1559	-.[illegible]167	-.[illegible]035	-.[illegible]687	-.[illegible]2[illegible]	.0111

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0344		
70.000							-.0781	-.0962	.0000
80.000							-.1157	-.1577	-.1745
90.000	-.0808	-.0116	-.0955	-.0954	.0000	.[illegible]0[illegible]	-.1158	-.1889	-.1834
100.000	-.1173	-.1055	-.1210	.0095	.0199	-.0390			
110.000	-.0995	-.1077	-.0179	.0997	.1137	-.0384			
120.000						.0343			
130.000						.1692			
140.000						.2173			
150.000						.1484			
160.000						.1349			
170.000						.1747			
180.000	-.0764	-.0483	.0932	.1244	.1443	.1870			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (9) = 1.399 ALPHA (9) = 8.617

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0782	.0229	-.1528												
70.000	.0806	.0442	-.0366												
80.000	.0805	.0567	-.0382												
90.000			.0482	-.1210	-.3122	-.3971	-.4107	-.4159	-.4147	-.4603	-.4461	-.3638	-.2947	-.2583	-.1852
100.000						-.3957	-.4128	-.4233	-.4404	-.4565	-.4660	-.4548	-.3134	-.2505	-.1822
110.000						-.4314	-.4369	-.4459	-.4480	-.4698	-.4686	-.4260	-.3696	-.2832	-.1882
120.000						-.3978								.0000	
130.000						-.4638								-.3268	
140.000						-.4794								-.3266	
150.000						-.4445								-.3300	
160.000						-.4103								-.3156	
170.000						-.3929								-.3015	
180.000						-.3969	-.3771	-.3502	-.3331	-.3173	-.3088	-.3015	-.2937	-.2918	-.2807

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1275	-.1087	-.0900	-.0843	-.0811	-.0847	-.0746	-.0650	-.0464	-.0241	-.0160	-.0424	-.0798	-.0852	-.1026
100.000	-.1447	-.1287	-.1094	-.0906	-.0787	-.0898	-.0825	-.0706	-.0383	-.0346	-.0052	-.0291	-.0568	-.0627	-.0949
110.000	.0000	-.1457	-.1219	-.1068	-.0990	-.0840	-.0727	-.0564	-.0395	-.0216	-.0114	-.0206	-.0339	-.0500	.0000
120.000						-.0749								-.0314	
130.000						-.0785								-.0187	
140.000						-.0917								-.0320	
150.000						-.1111								-.0479	
160.000						-.1455								-.0508	
170.000						-.1882								-.0512	
180.000	-.2739	-.2684	-.2543	-.2579	-.2486	-.2280	-.1959	-.1036	-.1206	-.0992	-.0858	-.0810	-.0706	-.0591	-.0297

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0589		
70.000							-.1008	-.1133	.0000
80.000							-.1308	-.1729	-.1873
90.000	-.0915	-.0447	-.1190	-.1077	.0000	.0000	-.1398	-.2042	-.1902
100.000	-.1286	-.1312	-.1430	-.0090	-.0012	-.0727			
110.000	-.1168	-.1352	-.0611	.0793	.0658	-.0707			
120.000						.0575			
130.000						.1852			
140.000						.2771			
150.000						.2094			
160.000						.1808			
170.000						.2564			
180.000	-.0966	-.0873	.0716	.1068	.1434	.0954			

AMES 66-830 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (10) = 1.503 ALPHA (1) = -8.822

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2709	.3178	.1103												
70.000	.2756	.3387	.1849												
80.000	.2964	.3135	.2074												
90.000			.1432	-.0669	-.2074	-.2860	-.2865	-.2636	-.2613	-.3178	-.2585	-.1881	-.1191	-.0941	-.0715
100.000						-.2863	-.2889	-.2990	-.2987	-.2851	-.2525	-.2356	-.1925	-.1701	-.1055
110.000						-.3916	-.3827	-.3752	-.3236	-.2765	-.2453	-.2414	-.2434	-.2425	-.2115
120.000						-.2413								.0000	
130.000						-.2239								-.1816	
140.000						-.2002								-.1487	
150.000						-.1736								-.1265	
160.000						-.1250								-.0813	
170.000						-.0963								-.0423	
180.000						-.0811	-.0487	-.0329	-.0241	-.0213	-.0095	-.0191	-.0219	-.0209	-.0171

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0409	-.0305	-.0155	-.0111	-.0126	-.0251	-.0218	-.0140	-.0049	.0127	.0347	.0255	-.0004	-.0142	-.0106
100.000	-.0816	-.0652	-.0456	-.0333	-.0279	-.0462	-.0398	-.0649	-.0601	-.0841	-.0477	-.0502	-.0568	-.0549	-.0698
110.000	.0000	-.2589	-.2128	-.1871	-.1501	-.1201	-.1027	-.0658	-.0700	-.0516	-.0268	-.0135	-.0264	-.0118	.0000
120.000						-.1326								-.0306	
130.000						-.1726								-.0760	
140.000						-.1361								-.0825	
150.000						-.0903								-.0766	
160.000						-.0668								-.0680	
170.000						-.0440								-.0611	
180.000	-.0142	-.0159	-.0066	-.0174	-.0174	-.0275	-.0347	-.0495	-.0533	-.0582	-.0454	-.0438	-.0399	-.0403	.0307

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1857		
70.000							.1103	.0637	.0000
80.000							.0486	-.0227	-.0108
90.000	-.0297	-.0324	.0318	.0579	.0000	.0000	.0047	-.0412	.0034
100.000	-.0405	-.0333	.0361	.0965	.0804	.0613			
110.000	-.0586	-.0361	.1049	.1031	.0846	.0043			
120.000						-.0846			
130.000						.1325			
140.000						.5063			
150.000						.5445			
160.000						.4973			
170.000						.3402			
180.000	-.0268	.0438	.1560	.3548	.4398	.6228			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (10) = 1.501 ALPHA (2) = -6.444

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2456	.2650	.0849												
70.000	.2537	.2888	.1632												
80.000	.2676	.2903	.1929												
90.000			.1493	-.0685	-.2360	-.2973	-.3043	-.2843	-.2830	-.3473	-.3257	-.2494	-.1578	-.1235	-.1046
100.000						-.2967	-.3072	-.3134	-.3233	-.3214	-.2923	-.2843	-.2393	-.2042	-.1261
110.000						-.3875	-.3830	-.3785	-.3398	-.2976	-.2711	-.2653	-.2669	-.2744	-.2188
120.000						-.2611								.0000	
130.000						-.2590								-.2042	
140.000						-.2406								-.1750	
150.000						-.2095								-.1375	
160.000						-.1716								-.1091	
170.000						-.1444								-.0869	
180.000						-.1279	-.1015	-.0811	-.0737	-.0685	-.0589	-.0632	-.0623	-.0636	-.0606

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0735	-.0630	-.0481	-.0464	-.0445	-.0527	-.0479	-.0428	-.0276	-.0054	.0165	.0100	-.0111	-.0247	-.0300
100.000	-.1054	-.0929	-.0742	-.0611	-.0533	-.0632	-.0515	-.0697	-.0599	-.0726	-.0464	-.0489	-.0553	-.0561	-.0779
110.000	.0000	-.2012	-.2037	-.2014	-.1792	-.1606	-.1389	-.1102	-.0948	-.0743	-.0521	-.0409	-.0346	-.0377	.0000
120.000						-.1378								-.0513	
130.000						-.2031								-.0914	
140.000						-.1647								-.1060	
150.000						-.1165								-.1013	
160.000						-.0975								-.1032	
170.000						-.0775								-.1064	
180.000	-.0866	-.0641	-.0516	-.0593	-.0565	-.0618	-.0705	-.0811	-.0827	-.0874	-.0810	-.0876	-.0851	-.0886	-.0196

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1209		
70.000							.0612	.0322	.0000
80.000							.0129	-.0486	-.0407
90.000	-.0486	-.0642	.0052	.0343	.0000	.0000	-.0369	-.0813	-.0362
100.000	-.0513	-.0642	.0086	.0552	.0402	.0203			
110.000	-.0660	-.0462	.0777	.0788	.0562	-.0183			
120.000						-.1042			
130.000						.1068			
140.000						.4447			
150.000						.4575			
160.000						.4100			
170.000						.2795			
180.000	-.0913	.0055	.1313	.2935	.3624	.5192			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (10) = 1.501 ALPHA (3) = -4.311

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2333	.2209	.0600												
70.000	.2434	.2432	.1446												
80.000	.2523	.2408	.1788												
90.000			.1517	-.0663	-.1930	-.3041	-.3133	-.2949	-.2954	-.3517	-.3433	-.3020	-.2040	-.1620	-.1275
100.000						-.3041	-.3179	-.3238	-.3335	-.3403	-.3179	-.3050	-.2753	-.2546	-.1492
110.000						-.3643	-.3791	-.3759	-.3470	-.3136	-.2885	-.2802	-.2824	-.2930	-.2515
120.000						-.2771								.0000	
130.000						-.2871								-.2131	
140.000						-.2709								-.1973	
150.000						-.2424								-.1647	
160.000						-.2092								-.1341	
170.000						-.1795								-.1157	
180.000						-.1649	-.1380	-.1132	-.1087	-.1016	-.0930	-.0952	-.0950	-.0[illegible]	-.0954

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7150
PHI															
90.000	-.0990	-.0844	-.0723	-.0672	-.0657	-.0710	-.0667	-.0623	-.0402	-.0133	.0101	.0076	-.0129	-.0270	-.0203
100.000	-.1228	-.1075	-.0915	-.0792	-.0711	-.0730	-.0657	-.0800	-.0621	-.0630	-.0323	-.0323	-.0403	-.0414	-.0626
110.000	.0000	-.1881	-.1868	-.1829	-.1714	-.1732	-.1604	-.1455	-.1237	-.0993	-.0712	-.0579	-.0462	-.0528	.0000
120.000						-.1508								-.0511	
130.000						-.2159								-.0876	
140.000						-.1834								-.1143	
150.000						-.1402								-.1180	
160.000						-.1229								-.1275	
170.000						-.1043								-.1322	
180.000	-.0978	-.0973	-.0838	-.0896	-.0864	-.0916	-.0973	-.1438	-.1087	-.1134	-.1054	-.1132	-.1096	-.1163	-.0966

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9480
PHI									
60.000							.0862		
70.000							.0301	.0150	.0000
80.000							-.0022	-.0563	-.0507
90.000	-.0554	-.0858	-.0078	.0182	.0000	.0000	-.0497	-.1002	-.0576
100.000	-.0512	-.0849	-.0100	.0391	.0169	.0031			
110.000	-.0545	-.0525	.0629	.0688	.0522	-.0218			
120.000						-.1114			
130.000						.1224			
140.000						.4146			
150.000						.3883			
160.000						.3415			
170.000						.2400			
180.000	-.0611	-.0033	.1312	.2433	.3058	.4460			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (10) = 1.900 ALPHA (4) = -2.170

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2098	.1824	.0264												
70.000	.2214	.2075	.1153												
80.000	.2285	.1982	.1587												
90.000			.1508	-.0646	-.2358	-.3105	-.3214	-.3074	-.3083	-.3731	-.3652	-.3383	-.2754	-.2211	-.1533
100.000						-.3107	-.3271	-.3340	-.3455	-.3579	-.3428	-.3259	-.2993	-.2943	-.1933
110.000						-.3771	-.3770	-.3738	-.3586	-.3546	-.3053	-.2975	-.2993	-.3055	-.2868
120.000						-.2906								.0000	
130.000						-.3101								-.2306	
140.000						-.2977								-.2166	
150.000						-.2702								-.1888	
160.000						-.2373								-.1614	
170.000						-.2088								-.1412	
180.000						-.1958	-.1730	-.1525	-.1442	-.1326	-.1221	-.1240	-.1231	-.1233	-.1220

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1190	-.1042	-.0895	-.0829	-.0770	-.0777	-.0743	-.0644	-.0446	-.0110	.0063	-.0019	-.0203	-.0292	-.0294
100.000	-.1401	-.1201	-.1016	-.0934	-.0826	-.0848	-.0874	-.0798	-.0578	-.0439	-.0182	-.0178	-.0269	-.0304	-.0460
110.000	.0000	-.1877	-.1766	-.1651	-.1542	-.1554	-.1551	-.1473	-.1228	-.1116	-.0881	-.0743	-.0629	-.0674	.0000
120.000						-.1674								-.0448	
130.000						-.2340								-.0684	
140.000						-.2044								-.1037	
150.000						-.1660								-.1235	
160.000						-.1500								-.1414	
170.000						-.1298								-.1575	
180.000	-.1287	-.1309	-.1208	-.1223	-.1148	-.1159	-.1220	-.1471	-.1315	-.1367	-.1336	-.1395	-.1379	-.1425	-.0878

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0570		
70.000							.0071	-.0085	.0000
80.000							-.0139	-.0643	-.0692
90.000	-.0858	-.1083	-.0517	.0164	.0000	.0000	-.0454	-.1054	-.0818
100.000	-.0623	-.0922	-.0263	.0443	.0177	-.0051			
110.000	-.0505	-.0465	.0300	.0790	.0603	-.0094			
120.000						-.0892			
130.000						.1277			
140.000						.3644			
150.000						.3294			
160.000						.2666			
170.000						.2124			
180.000	-.0694	-.0228	.1306	.2028	.2552	.4034			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/0A83 (REB022)

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE

MACH (10) = 1.501 ALPHA (5) = -.014

SECTION (1)066. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.1937	.1365	-.0156												
70.000	.2582	.1618	.0731												
80.000	.2101	.1758	.1413												
90.000			.1474	-.0606	-.2361	-.3152	-.3265	-.3156	-.3156	-.3735	-.3657	-.3503	-.3134	-.2947	-.2047
100.000						-.3147	-.3327	-.3409	-.3525	-.3662	-.3572	-.3330	-.3022	-.2927	-.2615
110.000						-.3705	-.3730	-.3713	-.3662	-.3544	-.3233	-.3035	-.2932	-.3031	-.3044
120.000						-.3510								.0000	
130.000						-.3300								-.2393	
140.000						-.3222								-.2343	
150.000						-.2931								-.2097	
160.000						-.2618								-.1865	
170.000						-.2335								-.1564	
180.000						-.2241	-.2041	-.1838	-.1742	-.1632	-.1542	-.1526	-.1498	-.1615	.1517

X/L	.4570	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1509	-.1263	-.1047	-.0944	-.0847	-.0823	-.0723	-.0577	-.0303	-.0062	.0095	.0031	-.0169	-.0262	348
100.000	-.1910	-.1464	-.1188	-.1037	.0888	-.0966	-.0825	-.0685	-.0423	-.0264	-.0032	-.0011	-.0112	-.0	-.1342
110.000	.0000	-.2244	-.1836	-.1657	-.1483	-.1446	-.1363	-.1256	-.1141	-.458	-.0723	-.0638	-.0501	-.0548	-.0
120.000						-.1781								-.0387	
130.000						-.2502								-.0562	
140.000						-.2219								-.0300	
150.000						-.1910								-.1254	
160.000						-.1746								-.1491	
170.000						-.1566								-.1756	
180.000	-.1578	-.1593	-.1520	-.1550	-.1457	-.1444	-.1463	-.1442	-.1551	-.1572	-.1546	-.1633	-.1637	-.1667	-.1116

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0236		
70.000							-.0175	-.0447	.0000
80.000							-.0353	-.0885	-.0927
90.000	-.0714	-.1144	-.0089	.0012	.0000	.0000	-.0533	-.1118	-.1031
100.000	-.0862	-.0914	-.0195	.0389	.0214	-.0090			
110.000	-.0490	-.0472	.0425	.0857	.0691	-.0122			
120.000						-.0547			
130.000						.1349			
140.000						.3241			
150.000						.2494			
160.000						.2088			
170.000						.1708			
180.000	-.0517	-.0202	.1218	.1570	.2017	.3125			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (RE8022)

MACH (IS) = 1.501 ALPHA (@) = 2.149

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1896	.1375	-.0413												
70.000	.1966	.1598	.0348												
80.000	.1968	.1695	.1181												
90.000			.1405	-.0571	-.2396	-.3127	-.3220	-.3201	-.3224	-.3787	-.3750	-.3702	-.3389	-.3208	-.2913
100.000						-.3133	-.3315	-.3398	-.3552	-.3717	-.3728	-.3529	-.3195	-.3234	-.2938
110.000						-.3614	-.3651	-.3664	-.3660	-.3668	-.3383	-.3137	-.3078	-.3117	-.3057
120.000						-.3097								.0000	
130.000						-.3476								-.2461	
140.000						-.3444								-.2483	
150.000						-.3146								-.2274	
160.000						-.2820								-.2075	
170.000						-.2563								-.1915	
180.000						-.2490	-.2329	-.2114	-.1975	-.1894	-.1812	-.1823	-.1795	-.1780	-.1780

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1719	-.1390	-.1117	-.1013	-.0890	-.0785	-.0618	-.0411	-.0140	.0031	.0146	.0025	-.0206	-.0298	-.0495
100.000	-.2245	-.1582	-.1291	-.1062	-.0937	-.0845	-.0762	-.0542	-.0248	-.0096	.0086	.0065	-.0077	-.0155	-.0351
110.000	.0000	-.2445	-.1835	-.1578	-.1350	-.1244	-.1123	-.0910	-.0734	-.0495	-.0288	-.0227	-.0161	-.0212	.0000
120.000						-.1744								-.0345	
130.000						-.2600								-.0351	
140.000						-.2421								-.0554	
150.000						-.2112								-.0841	
160.000						-.1958								-.1209	
170.000						-.1806								-.1737	
180.000	-.1802	-.1824	-.1759	-.1802	-.1746	-.1690	-.1696	-.1453	-.1727	-.1783	-.1788	-.1845	-.1847	-.1854	-.1149

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0011		
70.000							-.0371	-.0605	.0000
80.000							-.0567	-.1051	-.1112
90.000	-.0799	-.0682	-.0017	-.0198	.0000	.0000	-.0731	-.1234	-.1159
100.000	-.0784	-.0682	-.0340	.0189	.0123	-.0141			
110.000	-.0920	-.0497	.0257	.0814	.0875	-.0108			
120.000						.0000			
130.000						.1279			
140.000						.2606			
150.000						.1974			
160.000						.1638			
170.000						.1338			
180.000	-.0383	-.0090	.1053	.1387	.1822	.3366			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (1D) = 1.501 ALPHA (7) = 4.234

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1718	.1172	-.0647												
90.000	.1767	.1373	.0127												
100.000	.1694	.1519	.0770												
90.000			.1341	-.0550	-.2375	-.3146	-.3271	-.3281	-.3313	-.3815	-.3807	-.3813	-.3576	-.3391	-.2718
100.000						-.3153	-.3328	-.3444	-.3616	-.3774	-.3837	-.3725	-.3363	-.3386	-.3067
110.000						-.3553	-.3605	-.3669	-.3689	-.3600	-.3581	-.3287	-.3177	-.3183	-.3108
120.000						-.3136								.0000	
130.000						-.3616								-.2567	
140.000						-.3656								-.2566	
150.000						-.3307								-.2433	
160.000						-.3001								-.2258	
170.000						-.2763								-.2103	
180.000						-.2771	-.2591	-.2369	-.2232	-.2140	-.2052	-.2029	-.2025	-.1931	-.1955

X/L	.4500	.4600	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1880	-.1455	-.1192	-.1007	-.0875	-.0724	-.0508	-.0269	-.0043	.0093	.0170	-.0017	-.0299	-.0413	-.0540
100.000	-.2431	-.1695	-.1294	-.1093	-.0918	-.0752	-.0622	-.0389	-.0115	-.0026	.0123	.0044	-.0134	-.0220	-.0465
110.000	.0000	-.2454	-.1790	-.1425	-.1233	-.1018	-.0865	-.0611	-.0362	-.0142	.0019	.0006	-.0341	-.0134	-.0303
120.000						-.1578								-.0356	
130.000						-.2473								-.0364	
140.000						-.2506								-.0409	
150.000						-.2246								-.0571	
160.000						-.2141								-.0861	
170.000						-.1984								-.1356	
180.000	-.2014	-.2029	-.1939	-.2003	-.1945	-.1913	-.1938	-.1460	-.1968	-.2023	-.1992	-.2030	-.1956	-.1833	-.0732

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0166		
90.000							-.0601	-.0725	.0000
80.000							-.0741	-.1223	-.1308
90.000	-.0896	-.0448	-.0540	-.0410	.0000	.0000	-.0912	-.1468	-.1369
100.000	-.0899	-.0781	-.0705	.0162	.0196	-.0270			
110.000	-.0819	-.0504	-.0049	.0736	.1114	-.0196			
120.000						.0354			
130.000						.1479			
140.000						.2333			
150.000						.1825			
160.000						.1422			
170.000						.1254			
180.000	-.0484	-.0042	.1011	.1275	.1557	.2554			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (IC) = 1.951 ALPHA (8) = 6.467

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1268	.0855	-.0904												
70.000	.1230	.1087	-.0218												
80.000	.1161	.1198	.0318												
90.000			.1153	-.0565	-.2336	-.3195	-.3337	-.3389	-.3403	-.3839	-.3807	-.3819	-.3668	-.3481	-.2281
100.000						-.3221	-.3343	-.3466	-.3643	-.3806	-.3897	-.3899	-.3472	-.3379	-.2781
110.000						-.3506	-.3583	-.3682	-.3710	-.3896	-.3826	-.3442	-.3209	-.3204	-.3017
120.000						-.3199								.0000	
130.000						-.3759								-.2622	
140.000						-.3862								-.2641	
150.000						-.3546								-.2563	
160.000						-.3206								-.2419	
170.000						-.3319								-.2287	
180.000						-.3060	-.2898	-.2698	-.2531	-.2385	-.2302	-.2278	-.2218	-.2205	-.2175

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1596	-.1266	-.1044	-.0862	-.0748	-.0649	-.0421	-.0267	-.0089	.0067	.0174	-.0079	-.0413	-.0571	-.0748
100.000	-.1825	-.1389	-.1139	-.0964	-.0804	-.0701	-.0576	-.0392	-.0165	-.0149	.0084	-.0017	-.0240	-.0305	-.0642
110.000	.0000	-.1646	-.1285	-.1068	-.0901	-.0737	-.0595	-.0379	-.0233	-.0068	.0042	.0029	-.0064	-.0187	.0000
120.000						-.1061								-.0326	
130.000						-.1565								-.0296	
140.000						-.2218								-.0371	
150.000						-.2279								-.0392	
160.000						-.2190								-.0491	
170.000						-.2091								-.0629	
180.000	-.2207	-.2202	-.2112	-.2090	-.2023	-.2021	-.2078	-.1580	-.2140	-.2163	-.1960	-.1747	-.1307	-.0931	-.0072

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0462		
70.000							-.0824	-.0899	.0000
80.000							-.0395	-.1496	-.1503
90.000	-.0977	-.0117	-.0968	-.0835	.0000	.0000	-.0951	-.1723	-.1766
100.000	-.1031	-.0962	-.1146	.0084	.0309	-.0099			
110.000	-.0759	-.0914	-.0099	.0864	.0860	-.0256			
120.000						.0427			
130.000						.2032			
140.000						.2332			
150.000						.1564			
160.000						.1376			
170.000						.1650			
180.000	-.0806	-.0448	.0848	.1127	.1316	.1664			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB022)

MACH (IO) = 1.501 ALPHA (9) = 8.999

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.0965	.0589	-.1092												
70.000	.0898	.0691	-.0486												
80.000	.0844	.0972	-.0072												
90.000			.0552	-.0620	-.2519	-.3282	-.3415	-.3495	-.3508	-.3896	-.3868	-.3846	-.3654	-.3186	-.1912
100.000						-.3280	-.3418	-.3531	-.3639	-.3866	-.3968	-.4045	-.3712	-.3526	-.1901
110.000						-.3549	-.3609	-.3728	-.3773	-.3975	-.4033	-.3609	-.3407	-.3356	-.1597
120.000						-.3254								.0000	
130.000						-.3918								-.2757	
140.000						-.4081								-.278	
150.000						-.3770								-.2774	
160.000						-.3468								-.26	
170.000						-.3507								-.25 7	
180.000						3376	-.3150	-.2938	-.2736	-.2607	-.2515	.2189	-.2431	-.24	-.2350

X/L	.4500	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.1448	-.1192	-.0924	-.0761	-.0618	-.0582	-.0442	-.0334	-.0251	-.0164	.0046	-.0195	-.0546	-.0725	-.0 9
100.000	-.1500	-.1211	1054	-.0866	-.0717	-.0674	-.0556	-.0455	-.0265	-.0271	.0023	-.0133	-.0372	-.0476	-.0 9
110.000	.0000	-.1520	-.1101	-.0944	-.0845	-.0713	-.0601	-.0476	-.0355	-.0210	-.0068	-.0076	-.0144	-.0 307	.0000
120.000						-.0817								.0282	
130.000						-.0976								-.0233	
140.000						-.1523								-.0398	
150.000						-.1862								-.0448	
160.000						-.2160								-.0461	
170.000						-.2189								-.0514	
180.000	-.2369	-.2300	-.2160	-.2151	-.2136	-.2157	-.2206	-.1765	-.2054	-.1691	-.1271	-.0934	-.0748	-.0596	-.0279

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0657		
70.000							-.0839	-.1056	-.1 30
80.000							-.1157	-.1601	-.1516
90.000	-.1191	-.0889	-.1298	-.1208	.0000	.0000	-.1036	-.1742	-.1864
100.000	-.1244	-.1265	-.1445	-.0505	.0091	-.0574			
110.000	-.0949	-.1130	-.0700	.0723	.0878	-.0094			
120.000						.0756			
130.000						.2307			
140.000						.2757			
150.000						.1739			
160.000						.1619			
170.000						.2171			
180.000	-.0821	-.0173	.0832	.0904	.1199	.0894			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -6.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.250

MACH (1) = 1.751 ALPHA (1) = -8.354

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5610	.5108	.3539												
70.000	.5923	.5248	.4106												
80.000	.5864	.5403	.4699												
90.000			.5324	.3020	.0703	.0230	.0055	-.0166	-.0175	-.0406	-.0391	-.0411	-.0241	-.0061	.0426
100.000						.0224	.0087	-.0079	-.0283	-.0449	-.0487	-.0554	-.0322	-.0345	.0189
110.000						-.0050	-.0172	-.0306	-.0382	-.0651	-.0619	-.0444	-.0276	-.0360	-.0043
120.000						.0750								.0000	
130.000						-.0394								-.0049	
140.000						-.1112								.0000	
150.000						-.0843								.0055	
160.000						-.0636								.0053	
170.000						-.0686								.0055	
180.000						-.0738	-.0365	-.0193	-.0032	.0073	.0122	.0079	.0061	.0035	.0015

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5300	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0665	.0659	.0817	.0727	.0692	.0665	.0663	.0713	.0789	.0997	.1311	.1431	.1355	.1250	.1040
100.000	.0592	.0616	.0656	.0741	.0750	.0677	.0657	.0663	.0835	.0786	.1101	.1308	.1375	.1331	.1073
110.000	.0000	.0683	.0750	.0759	.0773	.0744	.0748	.0777	.0815	.0853	.0925	.1060	.1291	.1323	.0000
120.000						.0873								.0759	
130.000						.0683								.0563	
140.000						.0616								.0371	
150.000						.0619								.0277	
160.000						.0429								.0119	
170.000						.0292								-.0064	
180.000	-.0023	-.0078	.0000	.0070	.0140	.0084	.0087	.0066	.0054	.0016	.0028	-.0064	-.0090	-.0146	-.0311

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1884		
70.000							.1720	.1595	.0000
80.000							.1595	.1206	.0989
90.000	.0892	.0731	.0748	.1048	.0000	.0000	.1551	.1009	.0778
100.000	.0979	.0892	.0815	.1665	.2485	.2198			
110.000	.0912	.0931	.0973	.2590	.3215	.2479			
120.000						.4144			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.751 ALPHA (1) = -8.354

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.5539			
140.000						.3268			
150.000						.2584			
160.000						.4571			
170.000						.5302			
180.000	-.0146	-.0350	-.0685	.2590	.3546	.4269			

MACH (1) = 1.749 ALPHA (2) = -6.139

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4130	.4310
PHI															
60.000	.5303	.4789	.3192												
70.000	.5559	.4897	.3 68												
80.000	.5399	.4996	.4152												
90.000			.4809	.2935	.0575	.0103	-.0043	-.0285	-.0322	-.0494	-.0497	-.0567	-.0492	-.0448	-.0007
100.000						.0126	-.0022	-.0191	-.0372	-.0541	-.0631	-.0769	-.0596	-.0651	-.0268
110.000						-.0104	-.0247	-.0369	-.0486	-.0792	-.0818	-.0686	-.0564	-.0530	-.0367
120.000						.0602								.0000	
130.000						-.0606								-.0336	
140.000						-.1475								-.0350	
150.000						-.1180								-.0294	
160.000						-.0976								-.0277	
170.000						-.1014								-.0283	
180.000						-.1067	-.0713	-.0547	-.0352	-.0276	-.0197	-.0251	-.0271	-.0297	-.0274

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6361	.6540	.6730	.6920	.7100
PHI															
90.000	.0360	.0398	.0546	.0450	.0418	.0348	.0363	.0389	.0471	.0652	.0952	.1047	.0979	.0934	.0701
100.000	.0167	.0310	.0433	.0470	.0447	.0348	.0354	.0357	.0521	.0809	.0919	.0974	.1084	.1111	.0723
110.000	.0000	.0249	.0456	.0476	.0447	.0392	.0433	.0477	.0523	.0591	.0652	.0769	.0973	.0937	.0000
120.000						.0517								.0774	
130.000						.0398								.0772	
140.000						.0278								.0777	
150.000						.0258								.0781	
160.000						.0082								.0779	
170.000						-.0015								.0785	
180.000	-.0323	-.0381	-.0326	-.0233	-.0231	-.0255	-.0213	-.0255	-.0252	-.0290	-.0247	-.0343	-.0334	-.0434	-.0[illegible]

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.749 ALPHA (2) = -6.199

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1476		
70.000							.1401	.1262	.0000
80.000							.1301	.0890	.0690
90.000	.0582	.0440	.0412	.0618	.0000	.0000	.1273	.0740	.0490
100.000	.0829	.0573	.0468	.1098	.2059	.1889			
110.000	.0579	.0598	.0573	.2054	.2797	.2239			
120.000						.3989			
130.000						.5160			
140.000						.2633			
150.000						.1898			
160.000						.3797			
170.000						.4469			
180.000	-.0638	-.0652	-.0302	.2134	.3008	.3633			

MACH (1) = 1.749 ALPHA (3) = -4.183

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4963	.4507	.2966												
70.000	.5173	.4601	.3369												
80.000	.4957	.4682	.3751												
90.000			.4300	.2806	.0485	.0010	-.0162	-.0416	-.0437	-.0579	-.0612	-.0687	-.0643	-.0617	-.0419
100.000						.0039	-.0104	-.0291	-.0469	-.0629	-.0737	-.0874	-.0768	-.0846	-.0588
110.000						-.0136	-.0291	-.0442	-.0600	-.0903	-.0953	-.0872	-.0797	-.0834	-.0608
120.000						.0471								.0000	
130.000						-.0766								-.0692	
140.000						-.1708								-.0649	
150.000						-.1471								-.0582	
160.000						-.1250								-.0538	
170.000						-.1247								-.0535	
180.000						-.1332	-.1026	-.0851	-.0699	-.0591	-.0501	-.0506	-.0518	-.0553	-.0544

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0004	.0135	.0293	.0211	.0173	.0109	.0135	.0138	.0193	.0369	.0693	.0775	.0687	.0617	.0412
100.000	-.0222	.0001	.0164	.0237	.0214	.0118	.0117	.0112	.0217	.0269	.0529	.0687	.0743	.0713	.0482
110.000	.0000	-.0103	.0118	.0226	.0185	.0153	.0155	.0188	.0266	.0287	.0413	.0526	.0693	.0678	.0000
120.000						.0179								.0191	
130.000						.0100								.0029	
140.000						.0011								-.0145	
150.000						-.0015								-.0299	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (PEB023)

MACH (1) = 1.749 ALPHA (3) = -4.183

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0169								-.0411	
170.000						-.0299								-.0594	
180.000	-.0594	-.0605	-.0547	-.0486	-.0509	-.0473	-.0488	-.0500	-.0485	-.0515	-.0508	-.0565	-.0632	-.0691	-.0856

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1101		
70.000							.1095	.0945	.0700
80.000							.1031	.0642	.0412
90.000	.0262	.0195	.0120	.0190	.0000	.0000	.1076	.0473	.0198
100.000	.0351	.0318	.0179	.0593	.1720	.1632			
110.000	.0301	.0295	.0298	.1615	.2498	.2009			
120.000						.3757			
130.000						.4699			
140.000						.2031			
150.000						.1284			
160.000						.3140			
170.000						.3757			
180.000	-.0867	-.0875	-.0467	.1801	.2520	.3048			

MACH (1) = 1.749 ALPHA (4) = -2.078

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4644	.4110	.2666												
70.000	.4763	.4197	.3028												
80.000	.4507	.4224	.3331												
90.000			.3818	.2678	.0345	-.0127	-.0291	-.0559	-.0553	-.0640	-.0626	-.0574	-.0677	-.0712	-.0852
100.000						-.0078	-.0206	-.0390	-.0550	-.0716	-.0780	-.0925	-.0834	-.0932	-.0825
110.000						-.0171	-.0328	-.0524	-.0710	-.1007	-.1080	-.1054	-.0938	-.1087	-.0810
120.000						.0295								-.0705	
130.000						-.0917								-.1037	
140.000						-.1980								-.1399	
150.000						-.1779								-.1[illegible]	
160.000						-.1537								-.[illegible]	
170.000						-.1526								-.0813	
180.000						-.1581	-.1264	-.1130	-.0972	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	-.[illegible]

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100

PHI

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.749 ALPHA (4) = -2.078

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4550	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6545	.6730	.6880	.7100
PHI															
90.000	-.0561	-.0248	.0068	.0030	.0010	-.0071	-.0027	-.0042	-.0009	.0112	.0386	.0564	.0485	.0427	.0208
100.000	-.0744	-.0544	-.0179	.0016	.0022	-.0037	-.0062	-.0035	.0026	.0032	.0275	.0433	.0346	.0506	.0222
110.000	.0000	-.0660	-.0378	-.0071	-.0033	-.0054	-.0039	-.0012	.0011	.0064	.0147	.0278	.0424	.0450	.0000
120.000						-.0161								-.0101	
130.000						-.0213								-.0263	
140.000						-.0307								-.0411	
150.000						-.0378								-.0552	
160.000						-.0461								-.0673	
170.000						-.0573								-.0824	
180.000	-.0813	-.0813	-.0779	-.0689	-.0697	-.0712	-.0723	-.0756	-.0762	-.0777	-.0759	-.0850	-.0874	-.0900	-.1021

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0800		
70.000							.0711	.0691	.0000
80.000							.0786	.0419	.0161
90.000	-.0008	-.0042	-.0151	-.0191	.0000	.0000	.0944	.0272	-.0023
100.000	.0120	.0044	-.0068	.0000	.1358	.1574			
110.000	.0078	.0000	.0025	.1030	.2263	.1991			
120.000						.3590			
130.000						.4267			
140.000						.1475			
150.000						.0741			
160.000						.2601			
170.000						.3112			
180.000	-.1068	-.1107	-.0367	.1469	.2063	.2432			

MACH (1) = 1.749 ALPHA (5) = .004

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1160	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4368	.3740	.2372												
70.000	.4362	.3810	.2658												
80.000	.4061	.3808	.2950												
90.000			.3420	.2302	.0234	-.0212	-.0308	-.0526	-.0485	-.0585	-.0625	-.0730	-.0787	-.0857	-.1042
100.000						-.0212	-.0293	-.0375	-.0445	-.0602	-.0724	-.0949	-.0961	-.1086	-.1060
110.000						-.0221	-.0392	-.0550	-.0678	-.0922	-.1024	-.1071	-.1103	-.1187	-.1080
120.000						.0132								.0000	
130.000						-.1066								-.1260	
140.000						-.2190								-.1237	
150.000						-.2018								-.1147	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.749 ALPHA (5) = .004

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1785								-.1074	
170.000						-.1736								-.1077	
180.000						-.1794	-.1522	-.1391	-.1219	-.1117	-.1036	-.1060	-.1054	-.1074	-.1013

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0932	-.0915	-.0590	-.0329	-.0196	-.0167	-.0116	-.0124	-.0051	.0017	.0275	.0415	.0360	.0272	.0039
100.000	-.1045	-.1077	-.0923	-.0538	-.0265	-.0202	-.0166	-.0160	-.0065	-.0086	.0144	.0313	.0380	.0345	.0055
110.000	.0000	-.1039	-.0952	-.0813	-.0486	-.0286	-.0183	-.0121	-.0074	-.0071	.0002	.0112	.0249	.0243	.0000
120.000						-.0584								-.0387	
130.000						-.0635								-.0538	
140.000						-.0691								-.0685	
150.000						-.0673								-.0760	
160.000						-.0732								-.0895	
170.000						-.0791								-.1051	
180.000	-.0981	-.0944	-.0906	-.0836	-.0851	-.0924	-.0977	-.1048	-.1045	-.1063	-.1033	-.1072	-.1092	-.1113	-.1225

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0433		
70.000							.0350	.0425	.0000
80.000							.0533	.0164	-.0065
90.000	-.0193	-.0238	-.0367	-.0442	.0000	.0000	.0753	.0078	-.0227
100.000	-.0068	-.0149	-.0294	-.0333	.0908	.1388			
110.000	-.0123	-.0232	-.0258	.0433	.2016	.1985			
120.000						.3604			
130.000						.3778			
140.000						.0858			
150.000						.0283			
160.000						.2071			
170.000						.2446			
180.000	-.1102	-.1281	-.0135	.1213	.1627	.1960			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.750 ALPHA (6) = 2.178

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4116	.3407	.2252												
70.000	.3997	.3413	.2424												
80.000	.3617	.3401	.2648												
90.000			.3016	.2117	.0261	-.0193	-.0368	-.0686	-.0666	-.0747	-.0776	-.0887	-.0949	-.0990	-.1166
100.000						-.0161	-.0269	-.0450	-.0564	-.0741	-.0884	-.1094	-.1129	-.1262	-.1248
110.000						-.0156	-.0304	-.0537	-.0747	-.1042	-.1170	-.1271	-.1329	-.1428	-.1372
120.000						.0092								.0000	
130.000						-.1167								-.1570	
140.000						-.2371								-.1544	
150.000						-.2257								-.1401	
160.000						-.2024								-.1271	
170.000						-.1954								-.1225	
180.000						-.2004	-.1738	-.1616	-.1438	-.1316	-.1225	-.1242	-.1207	-.1198	-.1132

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1082	-.1079	-.0865	-.0685	-.0479	-.0351	-.0318	-.0248	-.0127	-.0062	.0145	.0253	.0165	.0124	-.0108
100.000	-.1242	-.1268	-.1163	-.0923	-.0589	-.0418	-.0389	-.0321	-.0171	-.0203	-.0008	.0177	.0238	.0197	-.0092
110.000	.0000	-.1300	-.1213	-.1105	-.0818	-.0563	-.0431	-.0327	-.0253	-.0245	-.0212	-.0082	.0101	.0071	.0000
120.000						-.0818								-.0752	
130.000						-.0897								-.0829	
140.000						-.0926								-.0926	
150.000						-.0906								-.1009	
160.000						-.1000								-.1109	
170.000						-.1041								-.1221	
180.000	-.1143	-.1108	-.1070	-.1015	-.1047	-.1157	-.1219	-.1272	-.1286	-.1292	-.1233	-.1265	-.1274	-.1304	-.1372

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0037		
70.000							.0059	.0218	.0000
80.000							.0301	-.0047	-.0268
90.000	-.0318	-.0391	-.0511	-.0623	.0000	.0000	.0562	-.0092	-.0416
100.000	-.0220	-.0276	-.0472	-.0530	.0437	.1190			
110.000	-.0324	-.0410	-.0447	.0001	.1756	.1856			
120.000						.3744			
130.000						.3872			
140.000						.0235			
150.000						-.0044			
160.000						.1659			
170.000						.1851			
180.000	-.1481	-.1263	.0298	.0954	.1220	.1517			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.751 ALPHA (7) = 4.200

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3897	.3141	.2274												
70.000	.3629	.3103	.2405												
80.000	.3292	.2995	.2487												
90.000			.2741	.2011	.0149	-.0356	-.0569	-.0890	-.0864	-.0925	-.0942	-.1056	-.1053	-.1091	-.1210
100.000						-.0242	-.0420	-.0578	-.0697	-.0887	-.1033	-.1254	-.1277	-.1390	-.1347
110.000						-.0187	-.0379	-.0654	-.0861	-.1179	-.1330	-.1437	-.1512	-.1620	-.1447
120.000						.0017								.0000	
130.000						-.1274								-.1919	
140.000						-.2508								-.1814	
150.000						-.2453								-.1620	
160.000						-.2225								-.1416	
170.000						-.2132								-.1350	
180.000						-.2164	-.1946	-.1803	-.1634	-.1506	-.1424	-.1405	-.1341	-.1283	-.1236

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7190
PHI															
90.000	-.1103	-.1048	-.0792	-.0746	-.0667	-.0592	-.0513	-.0436	-.0341	-.0199	.0069	.0166	.0058	-.0025	-.0267
100.000	-.1292	-.1309	-.1164	-.0899	-.0757	-.0676	-.0586	-.0521	-.0335	-.0403	-.0188	-.0001	.0081	.0131	-.0248
110.000	.0000	-.1431	-.1318	-.1126	-.0949	-.0804	-.0725	-.0607	-.0533	-.0545	-.0439	-.0318	-.0137	-.0173	.0000
120.000						-.1155								-.1145	
130.000						-.1124								-.1207	
140.000						-.1157								-.1231	
150.000						-.1171								-.1278	
160.000						-.1242								-.1322	
170.000						-.1307								-.1339	
180.000	-.1245	-.1257	-.1262	-.1262	-.1320	-.1360	-.1420	-.1452	-.1431	-.1467	-.1437	-.1461	-.1401	-.1461	-.1468

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0382		
70.000							-.0323	-.0021	.0000
80.000							.0066	-.0262	-.0480
90.000	-.0446	-.0544	-.0679	-.0838	.0000	.0000	.0377	-.0295	-.0634
100.000	-.0382	-.0424	-.0642	-.0768	-.0125	.0999			
110.000	-.0502	-.0584	-.0684	-.0399	.1496	.1844			
120.000						.3733			
130.000						.3516			
140.000						.0032			
150.000						-.0108			
160.000						.1361			
170.000						.1358			
180.000	-.1362	-.0477	.0475	.0669	.0913	.1136			

.MES 66-630 PI SSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.751 ALPHA (8) = 6.346

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3715	.2995	.2073												
70.000	.3185	.2861	.2259												
80.000	.2773	.2586	.2359												
90.000			.2575	.1711	-.0085	-.0601	-.0817	-.1155	-.1068	-.1030	-.1027	-.1079	-.1079	-.1077	-.1167
100.000						-.0478	-.0604	-.0753	-.0861	-.1018	-.1125	-.1318	-.1300	-.1416	-.1352
110.000						-.0283	-.0508	-.0788	-.0998	-.1286	-.1429	-.1515	-.1570	-.1666	-.1579
120.000						-.0108								.0000	
130.000						-.1379								-.2258	
140.000						-.2680								-.2043	
150.000						-.2671								-.1805	
160.000						-.2453								-.1564	
170.000						-.2330								-.1460	
180.000						-.2365	-.2144	-.1998	-.1808	-.1604	-.1493	-.1474	-.1448	-.1422	-.1402

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0940	-.0766	-.0499	-.0542	-.0539	-.0548	-.0507	-.0486	-.0477	-.0377	-.0111	-.0025	-.0170	-.0247	-.0516
100.000	-.1248	-.1134	-.0911	-.0679	-.0629	-.0653	-.0666	-.0681	-.0572	-.0652	-.0418	-.0205	-.0152	-.0223	-.0494
110.000	.0000	-.1398	-.1189	-.1001	-.0905	-.0908	-.0891	-.0861	-.0829	-.0832	-.0784	-.0633	-.0436	-.0436	.0000
120.000						-.1520								-.1573	
130.000						-.1435								-.1439	
140.000						-.1370								-.1522	
150.000						-.1393								-.1502	
160.000						-.1452								-.1534	
170.000						-.1511								-.1558	
180.000	-.1442	-.1485	-.1500	-.1517	-.1552	-.1591	-.1603	-.1591	-.1588	-.1585	-.1543	-.1570	-.1537	-.1540	-.1446

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0833		
70.000							-.0754	-.0329	.0000
80.000							-.0242	-.0536	-.0712
90.000	-.0812	-.0774	-.0900	-.1059	.0000	.0000	.0122	-.0533	-.0866
100.000	-.0378	-.0851	-.0869	-.1020	-.0830	.0708			
110.000	-.0777	-.0821	-.0950	-.0877	.1030	.1767			
120.000						.3482			
130.000						.3065			
140.000						-.0491			
150.000						.0010			
160.000						.1275			
170.000						.1055			
180.000	-.0975	-.0018	.0311	.0569	.0939	.1603			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (1) = 1.751 ALPHA (9) = 8.434

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3516	.2789	.1755												
70.000	.2876	.2657	.1915												
80.000	.2342	.2292	.2012												
90.000			.2155	.1212	-.0429	-.0846	-.1007	-.1319	-.1208	-.1106	-.1088	-.1117	-.1085	-.1039	-.0888
100.000						-.0747	-.0802	-.0878	-.0957	-.1056	-.1150	-.1353	-.1317	-.1404	-.1248
110.000						-.0505	-.0674	-.0899	-.1053	-.1319	-.1438	-.1535	-.1596	-.1709	-.1547
120.000						-.0295								.0000	
130.000						-.1444								-.2547	
140.000						-.2465								-.224	
150.000						-.2656								-.2	
160.000						-.2664								-.1	
170.000						-.2488								-.1	
180.000						-.2521	-.2261	-.2109	-.1884	-.1717	-.1625	-.1619	-.1631	-.1651	-.1671

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6	.7
PHI															
90.000	-.0383	-.0261	-.0145	-.0270	-.0363	-.0409	-.0418	-.0447	-.0471	-.0430	-.0185	-.0105	-.0279	-.0355	-.0
100.000	-.0923	-.0824	-.0514	-.0412	-.0470	-.0577	-.0634	-.0704	-.0639	-.0752	-.0530	-.0350	-.0335	-.	-.0
110.000	.0000	-.1051	-.0787	-.0746	-.0787	-.	-.0970	-.1009	-.1032	-.1085	-.	-.0873	-.0648	-.	.0
120.000						-.2322								-.2329	
130.000						-.1788								-.1	
140.000						-.1582								-.1739	
150.000						-.1520								-.1	
160.000						-.1570								-.1	
170.000						-.1652								-.	
180.000	-.1701	-.1736	-.1748	-.1733	-.1733	-.	-.1717	-.1673	-.1658	-.1652	-.1641	-.1623	-.1547	-.	-.1165

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1138		
70.000							-.1199	-.0598	.0000
80.000							-.0584	-.0791	-.0947
90.000	-.0851	-.0933	-.1065	-.1221	.0000	.0000	-.0158	-.0777	-.1073
100.000	-.0817	-.0935	-.1053	-.1233	-.1249	.0355			
110.000	-.0933	-.1034	-.1202	-.1210	.0399	.1672			
120.000						.3156			
130.000						.2442			
140.000						-.1034			
150.000						.0422			
160.000						.0922			
170.000						.0222			
180.000	-.0936	-.0102	.0280	.0586	.0908	.1692			

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AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.018 ALPHA (1) = -7.781

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5705	.5310	.3698												
70.000	.5742	.5371	.4308												
80.000	.5541	.5456	.4578												
90.000			.4986	.3737	.1464	.0920	.0750	.0434	.0388	.0218	.0197	.0109	.0139	.0136	.0039
100.000						.0947	.0753	.0607	.0367	.0160	.0063	-.0055	.0042	-.0034	.0088
110.000						.0644	.0531	.0385	0279	.0009	-.0085	-.0006	.0045	.0006	.0151
120.000						.1424								.0000	
130.000						.0261								.0185	
140.000						-.0586								.0170	
150.000						-.0389								.0188	
160.000						-.0186								.0173	
170.000						-.0277								.0139	
180.000						-.0453	-.0119	.0097	.0176	.0203	.0236	.0200	.0161	.0148	.0167

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0167	.0185	.0367	.0546	.0731	.0827	.0884	.0875	.0902	.0966	.1103	.1154	.1160	.1112	.0942
100.000	.0151	.0139	.0194	.0376	.0573	.0751	.0811	.0851	.0915	.0820	.0987	.1033	.1127	.1166	.0942
110.000	.0000	.0245	.0297	.0312	.0361	.0570	.0769	.0860	.0893	.0878	.0884	.0935	.1005	.1075	.0000
120.000						.0437								.0708	
130.000						.0398								.0613	
140.000						.0346								.0495	
150.000						.0355								.0392	
160.000						.0294								.0303	
170.000						.0231								.0176	
180.000	.0157	.0154	.0148	.0173	.0130	.0076	.0030	-.0013	-.0007	-.0004	.0054	.0027	.0097	.0079	-.0003

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1343		
70.000							.1343	.1195	.0000
80.000							.1418	.1027	.0932
90.000	.0702	.0555	.0592	.0491	.0000	.0000	.1559	.0941	.0729
100.000	.0919	.0665	.0696	.0783	.1742	.2129			
110.000	.0904	.0835	.0728	.1774	.2644	.2161			
120.000						.3977			
130.000						.5472			
140.000						.3312			
150.000						.2337			
160.000						.3968			
170.000						.4191			
180.000	-.0084	-.0049	.0000	.1234	.3228	.4180			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.016 ALPHA (2) = -5.727

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1640	.2035	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5428	.4925	.3590												
70.000	.5442	.4992	.3924												
80.000	.5168	.5047	.4194												
90.000			.4565	.3405	.1284	.0774	.0601	.0286	.0249	.0101	.0049	-.0039	-.0048	-.0066	-.0133
100.000						.0829	.0632	.0468	.0258	.0155	-.0042	-.0206	-.0162	-.0247	-.0156
110.000						.0580	.0462	.0283	.0158	-.0142	-.0251	-.0247	-.0186	-.0232	-.0093
120.000						.1275								.0000	
130.000						.0095								-.0117	
140.000						-.0836								-.0147	
150.000						-.0669								-.0125	
160.000						-.0485								-.0127	
170.000						-.0536								-.0000	
180.000						-.0739	-.0448	-.0281	-.0133	-.0097	-.0081	-.0102	-.0123	-.0126	-.0114

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7190
PHI															
90.000	-.0087	-.0069	-.0061	.0134	.0304	.0477	.0577	.0617	.0641	.0693	.0720	.0760	.0875	.0811	.0691
100.000	-.0111	-.0129	-.0172	.0037	.0182	.0343	.0486	.0571	.0668	.0745	.0714	.0744	.0819	.0763	.0723
110.000	.0000	-.0035	.0016	.0022	.0061	.0164	.0347	.0558	.0629	.0723	.0611	.0651	.0726	.0704	.0604
120.000						.0091								.0426	
130.000						.0243								.0315	
140.000						.0037								.0189	
150.000						.0052								.0124	
160.000						.0016								.0030	
170.000						-.0061								-.0011	
180.000	-.0129	-.0135	-.0129	-.0114	-.0150	-.0175	-.0202	-.0224	-.0224	-.0227	-.0191	-.0218	-.0190	-.0147	-.0258

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9410
PHI									
60.000							.1018		
70.000							.1018	.0971	.0727
80.000							.1147	.0763	.0533
90.000	.0431	.0284	.0296	.0221	.0000	.0000	.1303	.0758	.0457
100.000	.0833	.0394	.0385	.0515	.1421	.1757			
110.000	.0668	.0518	.0428	.1358	.2274	.1924			
120.000						.3766			
130.000						.4985			
140.000						.2738			
150.000						.1751			
160.000						.3519			
170.000						.3576			
180.000	-.0345	-.0307	-.0240	.1031	.2724	.3544			

AMES 6Ox-6Ox PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.010 ALPHA (3) = -3.591

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0570	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5213	.4541	.3256												
70.000	.5164	.4617	.3557												
80.000	.4869	.4678	.3791												
90.000			.4143	.3019	.1127	.0617	.0431	.0113	.0103	-.0024	-.0051	-.0187	-.0196	-.0223	-.0374
100.000						.0659	.0516	.0343	.0158	-.0030	-.0157	-.0338	-.0317	-.0422	-.0398
110.000						.0535	.0377	.0198	.0034	-.0251	-.0379	-.0407	-.0410	-.0471	-.0392
120.000						.1079								.0000	
130.000						-.0342								-.0380	
140.000						-.1071								-.0456	
150.000						-.0956								-.0459	
160.000						-.0749								-.0419	
170.000						-.0783								-.0419	
180.000						-.0959	-.0722	-.0597	-.0494	-.0406	-.0345	-.0371	-.0377	-.0416	-.0386

X/L	.4500	.4680	.4860	.5010	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0314	-.0298	-.0184	-.0141	-.0018	.0134	.0289	.0341	.0392	.0438	.0568	.0601	.0626	.0577	.0437
100.000	-.0558	-.0383	-.0315	-.0190	-.0105	.0009	.0131	.0286	.0389	.0347	.0468	.0504	.0598	.0629	.0478
110.000	.0000	-.0310	-.0262	-.0235	-.0208	-.0152	.0015	.0195	.0310	.0356	.0368	.0410	.0474	.0535	.0000
120.000						-.0220								.0137	
130.000						-.0227								.0358	
140.000						-.0243								-.0037	
150.000						-.0216								-.0117	
160.000						-.0275								-.0212	
170.000						-.0301								-.0353	
180.000	-.0368	-.0398	-.0353	-.0347	-.0350	-.0378	-.0396	-.0430	-.0436	-.0433	-.0420	-.0442	-.0420	-.0439	-.0473

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
60.000							.0746		
70.000							.0711	.0714	.0000
80.000							.0370	.0526	.0342
90.000	.0200	.0033	.0050	-.0052	.0000	.0000	.1084	.0535	.0215
100.000	.0382	.0163	.0122	.0212	.1136	.1531			
110.000	.0389	.0249	.0145	.1058	.1993	.1701			
120.000						.3601			
130.000						.4571			
140.000						.2184			
150.000						.1176			
160.000						.2724			
170.000						.3047			
180.000	-.0366	-.0328	-.0470	.0064	.2282	.2983			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.019 ALPHA (4) = -1.395

SECTION (1)SUB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2120	.2640	.2820	.3010	.3190	.3380	.3570	.3760	.3940	.4030	.4310
PHI															
60.000	.4983	.4142	.2911												
70.000	.4681	.4274	.3178												
80.000	.4525	.4274	.3400												
90.000			.3732	.2634	.0917	.0431	.0275	-.0041	-.0032	-.0126	-.0175	-.0275	-.0325	-.0382	-.0524
100.000						.0491	.0376	.0208	.0038	-.0135	-.0257	-.0457	-.0458	-.0576	-.0570
110.000						.0434	.0309	.0111	-.0050	-.0357	-.0484	-.0548	-.0573	-.0654	-.0615
120.000						.0911								.0000	
130.000						-.0229								-.0753	
140.000						-.1248								-.0714	
150.000						-.1187								-.0734	
160.000						-.1011								-.0769	
170.000						-.1014								-.0672	
180.000						-.1190	-.0998	-.0876	-.0764	.0668	-.0633	-.0627	-.0621	-.0635	-.0537

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5960	.6170	.6360	.6540	.6730	.6940	.7170
PHI															
90.000	-.0478	-.0479	-.0370	-.0355	-.0246	-.0165	.0056	.0151	.0187	.0230	.0356	.0397	.0388	.0372	.0211
100.000	-.0573	-.0595	-.0539	-.0459	-.0316	-.0254	-.0044	.0062	.0184	.0217	.0221	.0282	.0352	.0405	.0252
110.000	-.0701	-.0566	-.0512	-.0477	-.0415	-.0354	-.0211	-.0051	.0059	.0075	.0123	.0139	.0227	.0203	.0000
120.000						-.0545								-.0162	
130.000						-.0534								-.0203	
140.000						-.0540								-.0269	
150.000						-.0305								-.0343	
160.000						-.0506								.0456	
170.000						-.0556								-.0550	
180.000	-.0995	-.0960	-.0542	-.0524	-.0556	-.0577	-.0608	-.0626	-.0648	-.0633	-.0617	-.0642	-.0635	-.0509	-.0661

X/L	.7290	.7470	.7650	.7830	.8010	.8290	.8620	.9000	.9400
PHI									
60.000							.0588		
70.000							.0417	.0527	.0000
80.000							.0677	.0370	.0162
90.000	.0033	-.0183	-.0134	-.0268	.0000	.0000	.0940	.0391	.0052
100.000	.0168	-.0015	-.0042	-.0396	.0741	.1363			
110.000	.0158	-.0009	-.0073	.0645	.1799	.1666			
120.000						.3477			
130.000						.4085			
140.000						.1585			
150.000						.0736			
160.000						.2253			
170.000						.2479			
180.000	-.0752	-.0754	-.0621	.0808	.1825	.2433			

AMES 6F-63C PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.019 ALPHA (5) = .545

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.4732	.3871	.2621												
70.000	.4522	.3929	.2843												
80.000	.4165	.3895	.3014												
90.000			.3363	.2286	.0689	.0260	.0102	-.0220	-.0193	-.0260	-.0296	-.0418	-.0467	-.0491	-.0654
100.000						.0352	.0130	.0084	-.0071	-.0241	-.0393	-.0570	-.0594	-.0715	-.0718
110.000						.0315	.0184	.0011	-.0158	-.0463	-.0603	-.0681	-.0739	-.0836	-.0799
120.000						.0732								.0000	
130.000						-.0381								-.1017	
140.000						-.1408								-.0999	
150.000						-.1372								-.1005	
160.000						-.1232								-.1005	
170.000						-.1205								-.0899	
180.000						-.1384	-.1217	-.1116	-.1019	-.0949	-.0883	-.0872	-.0845	-.0824	-.0751

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5580	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0609	-.0603	-.0479	-.0376	-.0252	-.0131	-.0066	-.0029	-.0011	.0032	.0148	.0203	.0200	.0172	.0038
100.000	-.0718	-.0754	-.0697	-.0545	-.0379	-.0234	-.0177	-.0116	-.0042	-.0091	.0020	.0056	.0157	.0193	.0044
110.000	.0000	-.0784	-.0733	-.0669	-.0542	-.0415	-.0294	-.0196	-.0174	-.0165	-.0149	-.0122	-.0036	.0026	.0000
120.000						-.0784								-.0463	
130.000						-.0805								-.0473	
140.000						-.0777								-.0522	
150.000						-.0725								-.0543	
160.000						-.0710								-.0605	
170.000						-.0713								-.0706	
180.000	-.0742	-.0733	-.0724	-.0691	-.0718	-.0765	-.0780	-.0808	-.0808	-.0820	-.0780	-.0774	-.0762	-.0750	-.0810

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0035		
70.000							.0168	.0293	.0000
80.000							.0495	.0185	-.0014
90.000	-.0166	-.0344	-.0315	-.0455	.0000	.0000	.0787	.0272	-.0070
100.000	-.0035	-.0245	-.0286	-.0338	.0209	.1184			
110.000	-.0058	-.0242	-.0332	.0177	.1560	.1652			
120.000						.3374			
130.000						.3585			
140.000						.1059			
150.000						.0266			
160.000						.1809			
170.000						.1962			
180.000	-.0909	-.0874	-.0635	.0793	.1470	.1893			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.021 ALPHA (6) = 2.672

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4420	.3507	.2316												
70.000	.4139	.3388	.2482												
80.000	.3723	.3489	.2679												
90.000			.2966	.1950	.0450	.0060	-.0051	-.0320	-.0202	-.0193	-.0233	-.0320	-.0379	-.0430	-.0631
100.000						.0172	.0076	-.0024	-.0103	-.0212	-.0311	-.0520	-.0547	-.0673	-.0721
110.000						.0206	.0063	-.0109	-.0260	-.0502	-.0580	-.0652	-.0715	-.0832	-.0856
120.000						.0565								.0000	
130.000						-.0544								-.1223	
140.000						-.1607								-.1232	
150.000						-.1594								-.1232	
160.000						-.1446								-.1232	
170.000						-.1413								-.1094	
180.000						-.1561	-.1414	-.1345	-.1254	-.1175	-.1097	-.1055	-.1004	-.1 [illegible]	-.0937

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7170
PHI															
90.000	-.0640	-.0692	-.0655	-.0680	-.0686	-.0686	-.0618	-.0532	-.0410	-.0251	-.0071	.0018	.0057	.0027	-.0072
100.000	-.0731	-.0842	-.0845	-.0767	-.0752	-.0776	-.0734	-.0691	-.0578	-.0440	-.0242	-.0117	-.0012	.0079	-.0083
110.000	-.0800	-.0911	-.0917	-.0908	-.0896	-.0893	-.0844	-.0786	-.0713	-.0606	-.0462	-.0361	-.021	-.0156	.0000
120.000						-.1155								-.0808	
130.000						-.1101								-.0778	
140.000						-.0991								-.0811	
150.000						-.0936								-.0957	
160.000						-.0875								-.0833	
170.000						-.0853								-.0973	
180.000	-.0905	-.0896	-.0875	-.0866	-.0884	-.0911	-.0936	-.0954	-.0966	-.0982	-.0977	-.1013	-.1004	-.10 [illegible]	-.1030

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0214		
70.000							-.0089	.0070	.0000
80.000							.0271	-.0008	-.0193
90.000	-.0280	-.0422	-.0416	-.0567	.0000	.0000	.0588	.0079	-.0243
100.000	-.0130	-.0370	-.0387	-.0477	-.0187	.1028			
110.000	-.0214	-.0425	-.0480	-.0156	.1258	.1739			
120.000						.3673			
130.000						.3304			
140.000						.0490			
150.000						.0021			
160.000						.1330			
170.000						.1428			
180.000	-.1108	-.1030	-.0657	.0634	.1080	.1434			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB023)

MACH (2) = 2.020 ALPHA (7) = 4.738

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4168	.3164	.2014												
70.000	.3760	.3227	.2174												
80.000	.3297	.3079	.2320												
90.000			.2556	.1612	.0281	.0008	-.0091	-.0448	-.0376	-.0360	-.0406	-.0494	-.0566	-.0596	-.0785
100.000						.0081	.0048	-.0022	-.0146	-.0309	-.0460	-.0660	-.0716	-.0836	-.0884
110.000						.0102	.0039	-.0110	-.0255	-.0542	-.0711	-.0821	-.0914	-.1017	-.1041
120.000						.0381								.0000	
130.000						-.0674								-.1564	
140.000						-.1790								-.1474	
150.000						-.1790								-.1450	
160.000						-.1654								-.1380	
170.000						-.1599								-.1251	
180.000						-.1729	-.1594	-.1549	-.1455	-.1364	-.1286	-.1239	-.1173	-.1146	-.1065

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0755	-.0777	-.0711	-.0711	-.0666	-.0584	-.0484	-.0441	-.0374	-.0328	-.0179	-.0087	-.0065	-.0105	-.0223
100.000	-.0911	-.0973	-.0933	-.0852	-.0789	-.0735	-.0668	-.0588	-.0496	-.0515	-.0369	-.0283	-.0151	-.0081	-.0243
110.000	.0000	-.1099	-.1078	-.1066	-.1024	-.0988	-.0888	-.0815	-.0720	-.0692	-.0626	-.0546	-.0424	-.0356	.0000
120.000						-.1493								-.1330	
130.000						-.1402								-.1073	
140.000						-.1270								-.1024	
150.000						-.1179								-.1006	
160.000						-.1108								-.1042	
170.000						-.1084								-.1088	
180.000	-.1068	-.1066	-.1063	-.1042	-.1066	-.1096	-.1114	-.1133	-.1139	-.1142	-.1119	-.1134	-.1116	-.1128	-.1132

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0539		
70.000							-.0464	-.0162	.0000
80.000							-.0003	-.0212	-.0400
90.000	-.0440	-.0596	-.0585	-.0759	.0000	.0000	.0383	-.0101	-.0429
100.000	-.0298	-.0524	-.0570	-.0666	-.0651	.0778			
110.000	-.0411	-.0640	-.0733	-.0565	.0795	.1638			
120.000						.3530			
130.000						.3326			
140.000						.0066			
150.000						-.0293			
160.000						.1066			
170.000						.1042			
180.000	-.1199	-.1092	-.0373	.0469	.0734	.1126			

AMES 66-630 PRESSURE VENTING - INTEG. .EHICLE (REB023)

MACH (2) = 2.017 ALPHA (8) = 6.844

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3889	.2911	.1774												
70.000	.3557	.2890	.1908												
80.000	.2896	.2659	.1995												
90.000			.2142	.1307	.0128	-.0169	-.0297	-.0677	-.0614	-.0527	-.0557	-.0635	-.0670	-.0694	-.0825
100.000						-.0064	-.0103	-.0207	-.0312	-.0458	-.0599	-.0781	-.0822	-.0929	-.0947
110.000						.0044	-.0004	-.0222	-.0408	-.0674	-.0835	-.0956	-.1048	-.1143	-.1146
120.000						.0202								.0000	
130.000						-.0799								-.1857	
140.000						-.1914								-.1757	
150.000						-.1959								-.1671	
160.000						-.1855								-.1500	
170.000						-.1777								-.1412	
180.000						-.1873	-.1756	-.1708	-.1642	-.1526	-.1448	-.1393	-.1319	-.1280	-.1236

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0792	-.0798	-.0667	-.0521	-.0411	-.0278	-.0262	-.0253	-.0268	-.0247	-.0138	-.0056	-.0086	-.0171	-.0329
100.000	-.0941	-.0985	-.0944	-.0816	-.0620	-.0468	-.0419	-.0416	-.0356	-.0444	-.0340	-.0274	-.0210	-.0171	-.0358
110.000	.0000	-.1173	-.1125	-.1092	-.0982	-.0810	-.0716	-.0637	-.0628	-.0668	-.0652	-.0607	-.0492	-.0458	.0000
120.000						-.1839								-.1836	
130.000						-.1676								-.1509	
140.000						-.1512								-.1252	
150.000						-.1376								-.1185	
160.000						-.1288								-.1140	
170.000						-.1264								-.1188	
180.000	-.1223	-.1220	-.1199	-.1208	-.1238	-.1258	-.1282	-.1273	-.1267	-.1246	-.1215	-.1206	-.1194	-.1216	-.1201

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0768		
70.000							-.0834	-.0427	.0000
80.000							-.0313	-.0422	-.0574
90.000	-.0553	-.0716	-.0702	-.0886	.0000	.0000	.0139	-.0304	-.0628
100.000	-.0444	-.0685	-.0694	-.0840	-.0906	.0461			
110.000	-.0587	-.0834	-.0914	-.0851	.0014	.1562			
120.000						.3174			
130.000						.2724			
140.000						-.0327			
150.000						-.0198			
160.000						.0726			
170.000						.0683			
180.000	-.1023	-.1092	-.0275	.0217	.0478	.1113			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB023)

MACH (2) = 2.016 ALPHA (9) = 8.897

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1645	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3700	.2705	.1569												
70.000	.3069	.2681	.1686												
80.000	.2540	.2352	.1769												
90.000			.1811	.1064	-.0081	-.0388	-.0552	-.0931	-.0872	-.0749	-.0743	-.0758	-.0737	-.0743	-.0835
100.000						-.0272	-.0328	-.0454	-.0537	-.0657	-.0746	-.0884	-.0879	-.0962	-.0968
110.000						-.0075	-.0179	-.0397	-.0555	-.0827	-.0955	-.1040	-.1129	-.1206	-.1197
120.000						.0054								.0000	
130.000						-.0896								-.2106	
140.000						-.2054								-.2020	
150.000						-.2129								-.1895	
160.000						-.2033								-.1758	
170.000						-.1932								-.1556	
180.000						-.2000	-.1910	-.1884	-.1770	-.1681	-.1606	-.1479	-.1438	-.1441	-.1411

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0740	-.0616	-.0339	-.0238	-.0235	-.0205	-.0161	-.0182	-.0209	-.0218	-.0091	-.0076	-.0115	-.0200	-.0331
100.000	-.0965	-.0927	-.0796	-.0490	-.0368	-.0363	-.0330	-.0366	-.0330	-.0433	-.0336	-.0288	-.0224	-.0209	-.0388
110.000	.0000	-.1189	-.1093	-.0930	-.0731	-.0666	-.0614	-.0614	-.0638	-.0681	-.0681	-.0672	-.0560	-.0505	.0000
120.000						-.2113								-.2211	
130.000						-.1887								-.2069	
140.000						-.1624								-.1524	
150.000						-.1500								-.1385	
160.000						-.1428								-.1337	
170.000						-.1385								-.1334	
180.000	-.1420	-.1414	-.1414	-.1394	-.1391	-.1400	-.1388	-.1385	-.1367	-.1331	-.1301	-.1319	-.1307	-.1322	-.1293

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0881		
70.000							-.1021	-.0632	.0000
80.000							-.0543	-.0577	-.0729
90.000	-.0569	-.0723	-.0758	-.0941	.0000	.0000	-.0022	-.0451	-.0809
100.000	-.0480	-.0700	-.0741	-.0918	-.0975	.0200			
110.000	-.0643	-.0915	-.0958	-.0970	-.0466	.1482			
120.000						.2724			
130.000						.1900			
140.000						-.0929			
150.000						-.0283			
160.000						.0476			
170.000						.0228			
180.000	-.1282	-.1061	-.0288	.0007	.0354	.1167			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -6.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 5.500

MACH (1) = .691 ALPHA (1) = -8.446

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1268	.0617	-.1304												
70.000	.2306	.0958	-.0621												
80.000	.2454	.0892	-.0561												
90.000			-.0934	-.2347	-.2809	-.1469	-.0887	-.0581	-.0343	-.0574	-.0267	-.0053	.0244	.0079	.0099
100.000						-.2020	-.1428	-.0950	-.0531	-.0218	-.0109	-.0234	.0115	-.0269	.0105
110.000						-.2611	-.1705	-.1221	-.0795	-.0294	-.0132	.0003	.0224	-.0243	.0330
120.000						-.1541								.0090	
130.000						-.2294								-.0121	
140.000						-.2598								-.0220	
150.000						-.1994								-.0331	
160.000						-.1967								-.0774	
170.000						-.1947								-.0614	
180.000						-.1664	-.1435	-.1339	-.1253	-.1066	-.0815	-.0856	-.0502	-.0748	-.0666

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0409	.0468	.0719	.0577	.0791	.0725	.0793	.0736	.0948	.0446	.0485	.0168	-.0025	.0122	.0125
100.000	.0343	.0171	.0461	.0402	.0666	.0649	.0571	.0667	.0822	.0429	.0601	.0280	.0257	.0267	.0248
110.000	.0000	.0184	.0409	.0471	.0475	.0570	.0499	.0621	.0693	.0558	.0416	.0406	.0323	.0347	.0000
120.000						.0303								.0687	
130.000						-.0021								.0647	
140.000						.0036								.0538	
150.000						.0089								.0575	
160.000						-.0015								.0479	
170.000						.0062								.0416	
180.000	-.0587	-.0580	-.0249	-.0380	-.0239	-.0065	-.0445	-.0445	-.0415	-.0395	-.0101	-.0101	.0155	.0201	.0700

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0552		
70.000							.0263	-.0013	.0000
80.000							.0122	-.0371	-.0254
90.000	.0012	.0329	.0549	.0521	.0000	.0000	.0342	-.0339	-.0535
100.000	.0549	.0681	.0995	.1039	.0568	.0348			
110.000	.0622	.0885	.1533	.1492	.0948	-.0219			
120.000						-.0845			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .601 ALPHA (1) = -8.446

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.1080			
140.000						.0841			
150.000						.1554			
160.000						.3366			
170.000						.4330			
180.000	.0468	.1206	.1859	.2252	.3033	.0417			

MACH (1) = .598 ALPHA (2) = -6.339

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1356	.0616	-.1222												
70.000	.2172	.0756	-.0616												
80.000	.2222	.0776	-.0576												
90.000			-.0719	-.2190	-.2982	-.1558	-.0895	-.0679	-.0479	-.0702	-.0290	-.0130	.0156	.0083	-.0060
100.000						-.1847	-.1393	-.1038	-.0659	-.0287	-.0184	-.0293	-.0066	-.0381	-.0100
110.000						-.2563	-.1919	-.1503	-.0822	-.0440	-.0207	-.0080	-.0129	-.0391	-.0050
120.000						-.1731								.0000	
130.000						-.2636								-.0335	
140.000						-.3012								-.0556	
150.000						-.2360								-.0695	
160.000						-.2117								-.0891	
170.000						-.2273								-.0944	
180.000						-.2236	-.1723	-.1586	-.1413	-.1307	-.1051	-.1013	-.0854	-.0963	-.0692

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0179	.0285	.0302	.0458	.0561	.0462	.0560	.0540	.0360	.0053	.0186	-.0198	-.0353	-.0366	-.0109
100.000	-.0043	.0106	.0212	.0368	.0442	.0388	.0286	.0336	.0376	.0096	.0225	-.0049	-.0238	-.0090	-.0077
110.000	.0000	.0033	.0105	.0165	.0292	.0302	.0190	.0416	.0313	.0250	.0112	-.0012	-.0023	-.0029	.0000
120.000						.0159								.0312	
130.000						-.0172								.0329	
140.000						-.0317								.0265	
150.000						.0016								.0295	
160.000						-.0250								.0186	
170.000						-.0381								.0065	
180.000	-.0748	-.0705	-.0589	-.0546	-.0552	-.0482	-.0492	-.0721	-.0651	-.0681	-.0339	-.0339	-.0130	.0035	.0386

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AKES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .591 ALPHA (2) = -6.339

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0571		
70.000							.0236	.0151	.0000
80.000							.0151	-.0394	-.0321
90.000	-.0230	.0025	.0310	.0276	.0000	.0000	.0207	-.0286	-.0525
100.000	.0120	.0478	.0500	.0735	.0405	.0277			
110.000	.0364	.0874	.1267	.1362	.1141	-.0251			
120.000						-.0646			
130.000						.0891			
140.000						.0328			
150.000						.1242			
160.000						.3204			
170.000						.4150			
180.000	.0342	.0992	.1483	.1945	.2799	.0255			

MACH (1) = .600 ALPHA (3) = -4.300

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1364	.0857	-.1112												
70.000	.2108	.0942	-.0499												
80.000	.2146	.0797	-.0420												
90.000			-.0523	-.2298	-.3030	-.1642	-.1076	-.0781	-.0543	-.0838	-.0427	-.0321	-.0124	-.0121	-.0177
100.000						-.1947	-.1381	-.1113	-.0869	-.0476	-.0298	-.0546	-.0233	-.0444	-.0190
110.000						-.2397	-.1855	-.1524	-.0904	-.0629	-.0433	-.0269	-.0157	-.0559	-.0263
120.000						-.1834								.0000	
130.000						-.3262								-.0668	
140.000						-.3404								-.0744	
150.000						-.2728								-.0935	
160.000						-.2473								-.0997	
170.000						-.2497								-.1076	
180.000						-.2295	-.1908	-.1679	-.1719	-.1510	-.1305	-.1202	-.1001	-.1083	-.0869

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0080	.0087	.0103	.0193	.0249	.0113	.0299	.0236	.0077	-.0275	-.0285	-.0591	-.0762	-.0772	-.0486
100.000	-.0104	-.0184	.0034	.0021	.0223	-.0006	.0107	.0017	.0044	-.0262	-.0218	-.0550	-.0617	-.0483	-.0343
110.000	.0000	-.0167	-.0111	-.0065	-.0065	-.0065	-.0050	-.0043	.0040	-.0090	-.0215	-.0453	-.0366	-.0366	.0000
120.000						-.0279								-.0114	
130.000						-.0483								-.0067	
140.000						-.0540								-.0017	
150.000						-.0389								-.0074	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .600 ALPHA (3) = -4.300

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0459								-.0057	
170.000						-.0533								-.0238	
180.000	-.0878	-.0843	-.0691	-.0764	-.0678	-.0617	-.0765	-.0775	-.0859	-.0795	-.0510	-.0379	-.0399	-.0158	.0281

X/L	.7290	.7470	.7675	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0490		
70.000							.0231	.0010	.0000
80.000							.0124	-.0359	-.0381
90.000	-.0616	-.0280	.0063	.0196	.0000	.0000	.0086	-.0413	-.0478
100.000	-.0140	.0215	.0442	.0700	.0369	.0178			
110.000	.0142	.0644	.1110	.1435	.1073	-.0206			
120.000						-.0492			
130.000						.0777			
140.000						.0058			
150.000						.0941			
160.000						.2815			
170.000						.3670			
180.000	.0300	.0849	.1341	.1842	.2556	.0045			

MACH (1) = .600 ALPHA (4) = -2.238

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0800	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1407	.0721	-.0903												
70.000	.1945	.0920	-.0442												
80.000	.1692	.0993	-.0393												
90.000			-.0509	-.2215	-.3079	-.1764	-.1125	-.0866	-.0681	-.0807	-.0681	-.0499	-.0252	-.0176	-.0324
100.000						-.1900	-.1595	-.1181	-.0880	-.0668	-.0509	-.0774	-.0400	-.0647	-.0443
110.000						-.2301	-.2059	-.1737	-.1098	-.0747	-.0578	-.0394	-.0423	-.0749	-.0440
120.000						-.2062								.0000	
130.000						-.3553								-.0911	
140.000						-.3791								-.1036	
150.000						-.3036								-.1109	
160.000						-.2814								-.1254	
170.000						-.2774								-.1165	
180.000						-.2450	-.2148	-.1953	-.1794	-.1635	-.1313	-.1267	-.1135	-.1128	-.0990

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8024)

MACH (1) = .600 ALPHA (4) = -2.238

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4300	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0090	-.0222	-.0064	.0002	.0084	-.0061	.0091	-.0083	-.0187	-.0533	-.0718	-.1020	-.1157	-.1060	-.0825
100.000	-.0291	-.0417	-.0262	-.0183	-.0018	-.0281	-.0174	-.0221	-.0231	-.0751	-.0560	-.0879	-.1097	-.0835	-.0736
110.000	.0003	-.0354	-.0176	-.0301	-.0314	-.0367	-.0352	-.0305	-.0274	-.0543	-.0694	-.0842	-.0754	-.0694	.0000
120.000						-.0673								-.0469	
130.000						-.0838								-.0426	
140.000						-.0851								-.0311	
150.000						-.0623								-.0311	
160.000						-.0731								-.0356	
170.000						-.0690								-.0426	
180.000	-.1023	-.0950	-.0881	-.0907	-.0795	-.0831	-.0865	-.0955	-.0935	-.0804	-.0785	-.0751	-.0469	-.0402	.0156

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9050	.9450
PHI									
60.000							.0462		
70.000							.0169	-.0005	.0000
80.000							.0058	-.0437	-.0288
90.000	-.0865	-.0532	-.0158	.0131	.0000	.0000	.0106	-.0437	-.0520
100.000	-.0513	.0025	.0257	.0604	.0570	.0109			
110.000	-.0104	.0374	.0989	.1417	.1027	-.0164			
120.000						-.0444			
130.000						.0717			
140.000						-.0463			
150.000						.0582			
160.000						.2622			
170.000						.3417			
180.000	.0121	.0705	.1175	.1657	.2373	-.0104			

MACH (1) = .600 ALPHA (5) = -.125

SECTION (. ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1267	.0646	-.0769												
70.000	.1882	.0818	-.0507												
80.000	.1636	.0805	-.0407												
90.000			-.0391	-.2237	-.3259	-.1845	-.1271	-.0999	-.0866	-.1022	-.0856	-.0677	-.0418	-.0576	-.0643
100.000						-.1863	-.1782	-.1430	-.1052	-.0843	-.0624	-.0493	-.0527	-.0963	-.0511
110.000						-.2396	-.1995	-.1985	-.1337	-.0962	-.0786	-.0643	-.0659	-.1032	-.0666
120.000						-.2383								-.0960	
130.000						-.4192								-.1118	
140.000						-.4308								-.1237	
150.000						-.3429								-.1303	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .600 ALPHA (5) = -.125

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0810	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.3027								-.1362	
170.000						-.3037								-.1392	
180.000						-.2662	-.2277	-.1982	-.1869	-.1762	-.1503	-.1432	-.1260	-.1250	-.1111

X/L	.4300	.4680	.4360	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0382	-.0283	-.0306	-.0273	-.0144	-.0412	-.0262	-.0383	-.0608	-.0881	-.1150	-.1399	-.1598	-.1463	-.1114
100.000	-.0451	-.0656	-.0478	-.0296	-.0346	-.0517	-.0595	-.0622	-.0565	-.1136	-.0965	-.1396	-.1396	-.1245	-.1095
110.000	.0000	-.0547	-.0537	-.0550	-.0564	-.0702	-.0696	-.0555	-.0780	-.0894	-.1073	-.1332	-.1147	-.1043	.0000
120.000						-.0977								-.0881	
130.000						-.1157								-.0720	
140.000						-.1200								-.0639	
150.000						-.0844								-.0633	
160.000						-.0992								-.0451	
170.000						-.0834								-.0512	
180.000	-.1079	-.1115	-.0854	-.0977	-.0871	-.0881	-.1039	-.1106	-.1032	-.0972	-.0848	-.0848	-.0549	-.0485	-.0064

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0453		
90.000							.0160	.0096	.0000
80.000							.0049	-.0451	-.0263
90.000	-.1248	-.0755	-.0217	-.0086	.0000	.0000	.0036	-.0397	-.0556
100.000	-.0796	-.0175	.0085	.0458	.0408	.0147			
110.000	-.0411	.0231	.0888	.1394	.1095	-.0021			
120.000						-.0320			
130.000						.0479			
140.000						-.0833			
150.000						.0299			
160.000						.2375			
170.000						.3149			
180.000	-.0061	.0508	.1018	.1467	.2125	-.0161			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .650 ALPHA (6) = 2.046

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1164	.0557	-.0689												
70.000	.1701	.0816	-.0424												
80.000	.1297	.0670	-.0357												
90.000			-.0364	-.2196	-.3225	-.1914	-.1299	-.1153	-.0964	-.1120	-.0954	-.0914	-.0520	-.0401	-.0760
100.000						-.1815	-.1952	-.1561	-.1020	-.1037	-.0788	-.1085	-.0764	-.1031	-.0648
110.000						-.2451	-.2197	-.2084	-.1481	-.1259	-.1047	-.0929	-.0853	-.1288	-.0866
120.000						-.2540								[illegible]	
130.000						-.4607								[illegible]	
140.000						-.4544								[illegible]	
150.000						-.3530								[illegible]	
160.000						-.2997								-.1455	
170.000						-.3050								[illegible]	
180.000						-.2821	-.2432	-.2197	-.2024	-.1792	-.1554	-.1294	-.1135	-.1251	-.1189

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6830	.7100
PHI															
90.000	-.0494	-.0461	-.0520	-.0461	-.0405	-.0576	-.0363	-.0605	-.0833	-.1186	-.1370	-.1843	-.2092	-.1078	-.1372
100.000	-.0714	-.0942	-.0784	-.0639	-.0540	-.0643	-.0810	-.0934	-.0887	-.1592	-.1494	-.1766	-.1773	-.1565	-.1366
110.000	.0000	-.0882	-.0787	-.0830	-.0840	-.1120	-.1081	-.0991	-.1139	-.1510	-.1447	-.1706	-.1545	-.1454	.0000
120.000						-.1482								-.1139	
130.000						-.1417								-.0937	
140.000						-.1310								-.0873	
150.000						-.1024								-.0763	
160.000						-.1118								-.0699	
170.000						-.1102								-.0726	
180.000	-.1235	-.1169	-.0971	-.1057	-.1034	-.0974	-.1058	-.1165	-.1088	-.1031	-.105	-.0880	-.0789	-.0615	-.0232

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0515		
70.000							.0079	.0083	.0000
80.000							.0025	-.0353	-.0324
90.000	-.1650	-.0959	-.0372	-.0222	.0000	.0000	.0127	-.0413	-.0381
100.000	-.1018	-.0549	-.0117	.0452	.0433	.0193			
110.000	-.0651	-.0022	.0754	.1420	.1344	.0035			
120.000						-.0171			
130.000						.0234			
140.000						-.1286			
150.000						.0010			
160.000						.2196			
170.000						.2621			
180.000	-.0078	.046	.0871	.1445	.1090	-.0306			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .601 ALPHA (7) = 4.027

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1760	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0999	.0472	-.0594												
70.000	.1476	.0850	-.0468												
80.000	.0968	.0740	-.0506												
90.000			-.0526	-.2401	-.3252	-.2001	-.1379	-.1167	-.1068	-.1382	-.1247	-.1088	-.0723	-.0604	-.0937
100.000						-.1954	-.1929	-.1670	-.1273	-.1207	-.1074	-.1127	-.0996	-.1269	-.0881
110.000						-.2474	-.2392	-.2336	-.1624	-.1501	-.1194	-.1240	-.1108	-.1441	-.1213
120.000						-.2825								.0000	
130.000						-.5006								-.1684	
140.000						-.4960								-.1618	
150.000						-.3907								-.1569	
160.000						-.3285								-.1503	
170.000						-.3123								-.1533	
180.000						-.2898	-.2472	-.2193	-.2141	-.1819	-.1591	-.1404	-.1319	-.1315	-.1210

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0541	-.0601	-.0795	-.0568	-.0630	-.0736	-.0731	-.0932	-.1281	-.1713	-.1796	-.2212	-.2460	-.2383	-.1741
100.000	-.0877	-.1012	-.1002	-.0910	-.0722	-.1167	-.1153	-.1240	-.1244	-.1871	-.1873	-.2118	-.2212	-.2004	-.1671
110.000	.0000	-.1150	-.1177	-.1223	-.1299	-.1374	-.1301	-.1385	-.1495	-.1744	-.1934	-.2071	-.1924	-.1853	.0000
120.000						-.1773								-.1608	
130.000						-.1831								-.1458	
140.000						-.1539								-.1173	
150.000						-.1274								-.0945	
160.000						-.1324								-.0877	
170.000						-.1100								-.0847	
180.000	-.1262	-.1141	-.1062	-.1131	-.1042	-.1022	-.1133	-.1160	-.1103	-.1180	-.1085	-.0978	-.0790	-.0663	-.0269

X/L	.7250	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0430		
70.000							.0108	.0077	.0000
80.000							-.0003	-.0415	-.0269
90.000	-.1830	-.1135	-.0538	-.0180	.0000	.0000	.0152	-.0255	-.0377
100.000	-.1284	-.0561	-.0110	.0358	.0346	.0234			
110.000	-.0900	-.0215	.0804	.1357	.1363	.0152			
120.000						-.0135			
130.000						.0152			
140.000						-.1742			
150.000						-.0218			
160.000						.1927			
170.000						.2453			
180.000	-.0196	.0399	.0691	.1237	.1656	-.0199			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .990 ALPHA (8) = 6.195

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0898	.0372	-.0568												
70.000	.1170	.0810	-.0529												
80.000	.0878	.0653	-.0385												
90.000			-.0425	-.2554	-.3497	-.2171	-.1430	-.1334	-.1107	-.1527	-.1717	-.1580	-.0880	-.0865	-.1[illegible]
100.000						-.2248	-.1966	-.1703	-.1527	-.1327	-.[illegible]951	-.131[illegible]	-.1271	-.1559	-.1[illegible]
110.000						-.2634	-.2463	-.2359	-.1873	-.1673	-.1357	-.1390	-.1380	-.1841	-.1[illegible]
120.000						-.3191								.0000	
130.000						-.5604								-.2073	
140.000						-.5374								-.193[illegible]	
150.000						-.4111								-.17[illegible]	
160.000						-.3587								-.16[illegible]	
170.000						-.3394								-.1[illegible]	
180.000						-.3008	-.2433	-.2200	-.2013	-.1847	-.1580	-.1516	-.1440	-.1[illegible]	-.1334

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7100
PHI															
90.000	-.[illegible]37	-.0694	-.0806	-.0697	-.0776	-.0[illegible]42	-.1[illegible]54	-.1250	-.1659	-.2148	-.2155	-.1675	-.2[illegible]66	-.2[illegible]74	-.2[illegible]09
100.000	-.1195	-.1244	-.1204	-.1098	-.1028	-.1287	-.1473	-.1672	-.1675	-.2462	-.2098	-.2547	-.2[illegible]20	-.2[illegible]15	-.2[illegible]59
110.000	.0000	-.1500	-.1346	-.1552	-.1273	-.1691	-.1841	-.1837	-.2040	-.2236	-.2182	-.2533	-.2346	-.2[illegible]94	-.2[illegible]62
120.000						-.2231								-.2[illegible]27	
130.000						-.2145								-.1447	
140.000						-.1871								-.[illegible]358	
150.000						-.1466								-.[illegible]261	
160.000						-.1419								-.[illegible]246	
170.000						-.1162								-.[illegible]040	
180.000	-.1081	-.1121	-.1200	-.1164	-.0902	-.1146	-.1162	-.1200	-.1[illegible]58	-.1297	-.1[illegible]49	-.1035	-.0867	-.0614	-.0368

X/L	.7290	.7470	.7670	.7850	.8030	.829[illegible]	.8620	.9[illegible]00	.9400
PHI									
60.000							.0514		
70.000							.0190	.0241	.0000
80.000							.0149	-.0[illegible]12	-.0179
90.000	-.2082	-.1466	-.068[illegible]	-.0549	.0700	.0000	.0146	-.0501	-.0214
100.000	-.1893	-.0816	-.0577	.0307	.0307	.0[illegible]22			
110.000	-.1410	-.0912	.0437	.1937	.1506	.02[illegible]3			
120.000						.[illegible]761			
130.000						-.0039			
140.000						-.2175			
150.000						-.0581			
160.000						.1541			
170.000						.1973			
180.000	-.0251	.0205	.0643	.0919	.1453	.0082			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1) = .599 ALPHA (9) = 8.326

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0955	.0509	-.0542												
70.000	.0992	.0845	-.0329												
80.000	.0260	.0662	-.0375												
90.000			-.0375	-.2397	-.3504	-.2111	-.1745	-.1389	-.1246	-.1695	-.1545	-.1256	-.1018	-.0975	-.1121
100.000						-.2313	-.2167	-.2077	-.1485	-.1539	-.1278	-.1625	-.1240	-.1594	-.1243
110.000						-.2629	-.2709	-.2755	-.2160	-.1921	-.1608	-.1683	-.1547	-.2222	-.1643
120.000						-.3457								.0000	
130.000						- 5804								-.2258	
140.000						-.5555								-.2014	
150.000						-.4248								-.1825	
160.000						-.3553								-.1547	
170.000						-.3387								-.1531	
180.000						-.2935	-.2509	-.2190	-.2137	-.1888	-.1499	-.1438	-.1223	-.1263	-.1087

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0915	-.0935	-.1130	-.0945	-.0978	-.1259	-.1328	-.1561	-.1941	-.2416	-.2748	-.3014	-.3199	-.2987	-.2329
100.000	-.1250	-.1487	-.1408	-.1458	-.1435	-.1600	-.1675	-.1948	-.1874	-.2578	-.2576	-.3045	-.2910	-.2637	-.2355
110.000	.0000	-.1752	-.1729	-.1950	-.1904	-.2070	-.2177	-.2255	-.2238	-.2487	-.2849	-.2943	-.2792	-.2549	.0000
120.000						-.2718								-.2368	
130.000						-.2379								-.1724	
140.000						-.2049								-.1468	
150.000						-.1520								-.1138	
160.000						-.1450								-.0852	
170.000						-.1079								-.0892	
180.000	-.1263	-.1249	-.1120	-.1110	-.1087	-.0917	-.1106	-.1261	-.1190	-.1311	-.1233	-.1152	-.1068	-.0815	-.0337

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0566		
70.000							.0141	.0205	.0000
80.000							.0024	-.0301	-.0081
90.000	-.2256	-.1484	-.0738	-.0365	.0000	.0000	.0138	-.0275	-.0349
100.000	-.1628	-.0834	-.0471	.0353	.0420	.0426			
110.000	-.1593	-.0611	.0404	.1351	.1452	.0322			
120.000						.0094			
130.000						-.0345			
140.000						-.2672			
150.000						-.0897			
160.000						.1183			
170.000						.1161			
180.000	-.0209	.0125	.0540	.0825	.1161	.0607			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .749 ALPHA (1) = -8.354

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3390	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1383	.0568	-.1552												
70.000	.2371	.0662	-.1035												
80.000	.2660	.0734	-.0817												
90.000			-.1073	-.2871	-.3713	-.2083	-.1145	-.0823	-.0553	-.0619	-.0150	-.0215	.0145	.0257	.0309
100.000						-.2222	-.1725	-.0978	-.0640	-.0248	-.0095	-.0125	.0020	-.0243	.0047
110.000						-.3119	-.2186	-.1641	-.0793	-.0550	-.0305	-.0135	.0020	-.0200	-.0034
120.000						-.1846								.0000	
130.000						-.2871								-.0221	
140.000						-.3012								-.0461	
150.000						-.2582								-.0642	
160.000						-.2070								-.0633	
170.000						-.2244								-.0845	
180.000						-.2013	-.1829	-.1589	-.1534	-.1281	-.1000	-.0948	-.0894	-.0883	-.0758

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0491	.0398	.0505	.0813	.0726	.0644	.0989	.0814	.0871	.0563	.0631	.0221	-.0162	-.0139	.0042
100.000	.0339	.0098	.0319	.0467	.0701	.0633	.0647	.0678	.0740	.0336	.0358	.0410	.0065	.0208	.0244
110.000	.0000	.0366	.0300	.0349	.0625	.0576	.0473	.0536	.0645	.0675	.0519	.0314	.0549	.0238	.0000
120.000						.0595								.0555	
130.000						-.0025								.0650	
140.000						.0091								.0546	
150.000						.0126								.0292	
160.000						-.0130								.0270	
170.000						-.0099								.0172	
180.000	-.0851	-.0571	-.0582	-.0371	-.0344	-.0359	-.0397	-.0323	-.0439	-.0243	-.0208	-.0115	-.0026	.0221	.0602

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0419		
70.000							.0125	.0044	.0000
80.000							.0075	-.0325	-.0542
90.000	-.0139	.0120	.0270	.0374	.0000	.0000	.0060	-.0602	-.0649
100.000	.0322	.0680	.0911	.0929	.0659	.0154			
110.000	.0734	.0942	.1513	.1593	.0992	-.0521			
120.000						-.0672			
130.000						.1063			
140.000						.0940			
150.000						.1756			
160.000						.3646			
170.000						.4612			
180.000	.0520	.1284	.1850	.2434	.3348	.1525			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .749 ALPHA (2) = -6.296

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1510	.0437	-.1398												
70.000	.2485	.0913	-.0843												
80.000	.2444	.0848	-.0747												
90.000			-.0824	-.3053	-.3671	-.1814	-.1231	-.0958	-.0721	-.0784	-.0403	-.0403	.0016	.0111	.0049
100.000						-.2191	-.1724	-.1380	-.0852	-.0561	-.0348	-.0430	-.0166	-.0250	.0027
110.000						-.2935	-.2306	-.1751	-.1051	-.0531	-.0408	-.0256	-.0147	-.0351	-.0003
120.000						-.2128								.0000	
130.000						-.3075								-.0512	
140.000						-.3419								-.0416	
150.000						-.2692								-.0585	
160.000						-.2539								-.0822	
170.000						-.2591								-.0879	
180.000						-.2158	-.2040	-.1811	-.1781	-.1558	-.1086	-.0952	-.0846	-.1042	-.0713

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0300	.0115	.0300	.0398	.0611	.0499	.0742	.0654	.0611	.0308	.0183	-.0293	-.0466	-.0533	-.0280
100.000	.0138	-.0070	.0038	.0147	.0420	.0360	.0500	.0615	.0525	.0232	.0325	-.0232	-.0323	-.0328	-.0204
110.000	.0000	.0096	.0145	.0199	.0286	.0207	.0344	.0577	.0511	.0341	-.0003	-.0011	-.0086	-.0031	.0000
120.000						.0161								.0060	
130.000						-.0227								.0224	
140.000						-.0214								.0128	
150.000						-.0050								.0158	
160.000						-.0225								.0096	
170.000						-.0408								-.0111	
180.000	-.0744	-.0820	-.0612	-.0728	-.0549	-.0313	-.0518	-.0657	-.0566	-.0491	-.0516	-.0439	-.0337	-.0028	.0468

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0451		
70.000							.0093	-.0087	.0000
80.000							-.0003	-.0515	-.0466
90.000	-.0396	.0000	.0468	.0384	.0000	.0000	.0007	-.0445	-.0578
100.000	.0189	.0436	.0702	.0929	.0473	.0069			
110.000	.0462	.0746	.1410	.1666	.1009	-.0482			
120.000						-.0879			
130.000						.1006			
140.000						.0446			
150.000						.1403			
160.000						.3338			
170.000						.4147			
180.000	.0819	.1389	.1782	.2564	.3320	.1162			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE3024)

MACH (2) = .751 ALPHA (3) = -4.204

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1474	.0459	-.1320												
70.000	.2263	.0969	-.0856												
80.000	.2162	.0825	-.0736												
90.000			-.0736	-.2992	-.4006	-.2053	-.1384	-.1052	-.0793	-.0924	-.0613	-.0433	-.0138	-.0059	-.0251
100.000						-.2269	-.1771	-.1365	-.0877	-.0618	-.0351	-.0632	-.0336	-.0539	-.0208
110.000						-.2923	-.2374	-.1801	-.1185	-.0842	-.0531	-.0317	-.0205	-.0534	-.0146
120.000						-.2255								.0000	
130.000						-.3589								-.0716	
140.000						-.3815								-.0895	
150.000						-.2869								-.0905	
160.000						-.2746								-.1063	
170.000						-.2852								-.1123	
180.000						-.2356	-.2096	-.1954	-.1788	-.1643	-.1333	-.1174	-.1068	-.1038	-.0876

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0025	.0055	.0189	.0197	.0284	.0232	.0399	.0383	.0251	-.0112	-.0343	-.0766	-.1014	-.0931	-.0625
100.000	-.0067	-.0260	-.0192	.0050	.0238	.0066	.0109	.0164	.0208	-.0200	-.0313	-.0683	-.0774	-.0625	-.0575
110.000	.0000	-.0159	-.0064	-.0067	.0006	.0004	.0034	.0137	.0068	-.0131	-.0307	-.0498	-.0550	-.0583	.0000
120.000						-.0311								-.0335	
130.000						-.0452								-.0238	
140.000						-.0543								-.0031	
150.000						-.0394								-.0185	
160.000						-.0557								-.0158	
170.000						-.0507								-.0277	
180.000	-.0997	-.0870	-.0764	-.0780	-.0593	-.0673	-.0775	-.0844	-.0817	-.0728	-.0661	-.0622	-.0440	-.0304	.0219

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0424		
70.000							.0128	-.0073	.0000
80.000							-.0112	-.0408	-.0447
90.000	-.0753	-.0397	.0073	.0245	.0000	.0000	-.0042	-.0544	-.0583
100.000	-.0377	.0139	.0474	.0747	.0495	-.0057			
110.000	-.0008	.0581	.1259	.1584	.0952	-.0444			
120.000						-.0716			
130.000						.0848			
140.000						.0097			
150.000						.1011			
160.000						.3072			
170.000						.3859			
180.000	.0279	.1017	.1659	.2241	.2908	.1022			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (Z) = .750 ALPHA (A) = -2.119

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1354	.0547	-.1297												
70.000	.2118	.0955	-.0725												
80.000	.1962	.0911	-.0531												
90.000			-.0570	-.2755	-.4026	-.2150	-.1398	-.1136	-.0789	-.1002	-.0630	-.0562	-.0365	-.0313	-.0512
100.000						-.2451	-.1833	-.1450	-.0999	-.0750	-.0518	-.0693	-.0490	-.0792	-.0507
110.000						-.2823	-.2249	-.1975	-.1183	-.0838	-.0674	-.0569	-.0504	-.0847	-.0577
120.000						-.2571								.0000	
130.000						-.4163								-.0931	
140.000						-.4352								-.1184	
150.000						-.3509								-.1203	
160.000						-.3118								-.1236	
170.000						-.3228								-.1279	
180.000						-.2960	-.2136	-.1847	-.1852	-.1674	-.1324	-.1265	-.1192	-.1255	-.1053

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0130	-.0136	-.0112	.0136	.0163	.0032	.0013	.0016	-.0262	-.0633	-.0748	-.1217	-.1510	-.1413	-.1162
100.000	-.0409	-.0430	-.0205	-.0161	-.0014	-.0131	-.0170	-.0367	-.0178	-.0799	-.0649	-.1053	-.1275	-.1097	-.1093
110.000	.0000	-.0360	-.0294	-.0283	-.0221	-.0292	-.0359	-.0347	-.0417	-.0650	-.0768	-.0978	-.0959	-.0848	.0000
120.000						-.0564								-.0746	
130.000						-.0860								-.0524	
140.000						-.0880								-.0449	
150.000						-.0661								-.0408	
160.000						-.0780								-.0402	
170.000						-.0877								-.0416	
180.000	-.1056	-.0879	-.0822	-.0895	-.0784	-.0838	-.0971	-.1038	-.1068	-.1015	-.0795	-.0732	-.0629	-.0410	.0019

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0438		
70.000							.0131	.0052	.0000
80.000							.0049	-.0397	-.0320
90.000	-.1293	-.0716	-.0207	-.0381	.0000	.0000	-.0058	-.0480	-.0449
100.000	-.0771	-.0212	.0204	.0475	.0355	-.0011			
110.000	-.0451	.0292	.0873	.1415	.1126	-.0441			
120.000						-.0478			
130.000						.0701			
140.000						-.0320			
150.000						.0727			
160.000						.2871			
170.000						.3606			
180.000	.0032	.0732	.1261	.1816	.2696	.0852			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .751 ALPHA (5) = -.001

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1414	.0591	-.0907												
70.000	.2015	.0966	-.0582												
80.000	.1796	.0769	-.0484												
90.000			-.0520	-.2629	-.3985	-.2296	-.1515	-.1248	-.1057	-.1319	-.0967	-.0822	-.0435	-.0435	-.0674
100.000						-.2351	-.2039	-.1714	-.1103	-.1040	-.0757	-.0997	-.0614	-.0878	-.0558
110.000						-.2864	-.2388	-.2170	-.1545	-.1084	-.0964	-.0690	-.0614	-.1089	-.0739
120.000						-.2776								.0000	
130.000						-.4665								-.1128	
140.000						-.4752								-.1320	
150.000						-.3884								-.1304	
160.000						-.3568								-.1315	
170.000						-.3532								-.1296	
180.000						-.3355	-.2339	-.2088	-.1894	-.1799	-.1488	-.1353	-.1263	-.1166	-.1057

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0305	-.0365	-.0340	-.0259	-.0126	-.0340	-.0133	-.0208	-.0528	-.1029	-.1304	-.1799	-.2191	-.2111	-.1550
100.000	-.0544	-.0899	-.0582	-.0403	-.0362	-.0454	-.0531	-.0559	-.0531	-.1200	-.1240	-.1738	-.1865	-.1677	-.1571
110.000	.0090	-.0682	-.0614	-.0642	-.0601	-.0737	-.0691	-.0650	-.0832	-.0968	-.1354	-.1555	-.1519	-.1517	.0000
120.000						-.1166								-.1262	
130.000						-.1092								-.1013	
140.000						-.1186								-.1011	
150.000						-.0846								-.0856	
160.000						-.1020								-.0709	
170.000						-.0860								-.0792	
180.000	-.1215	-.1082	-.0966	-.1092	-.1068	-.0926	-.1034	-.1076	-.1070	-.1048	-.1088	-.1013	-.0765	-.0745	-.0079

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0303		
70.000							-.0041	-.0033	.0000
80.000							-.0028	-.0518	-.0300
90.000	-.1592	-.1 7	-.0420	-.0247	.0000	.0000	-.0133	-.0562	-.0570
100.000	-.1330	-.0535	.0051	.0517	.0343	-.0096			
110.000	-.0807	.0036	.0829	.1432	.1002	-.0340			
120.000						-.0502			
130.000						.0524			
140.000						-.0947			
150.000						.0321			
160.000						.2518			
170.000						.3169			
180.000	-.0085	.0712	.1196	.1700	.2388	.0584			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (Z) = .751 ALPHA (6) = 2.173

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1176	.0539	-.0908												
70.000	.1703	.0841	-.0551												
80.000	.1348	.0752	-.0401												
90.000			-.0404	-.2784	-.4178	-.2310	-.1671	-.1393	-.1089	-.1352	-.1072	-.0897	-.0570	-.0567	-.0852
100.000						-.2575	-.2091	-.1769	-.1352	-.1143	-.0794	-.1085	-.0768	-.1085	-.0716
110.000						-.2882	-.2412	-.2339	-.1737	-.1331	-.1050	-.1098	-.0971	-.1358	-.0887
120.000						-.3138								.0000	
130.000						-.5211								-.1594	
140.000						-.5126								-.1513	
150.000						-.4129								-.1423	
160.000						-.4064								-.1402	
170.000						-.4099								-.1399	
180.000						-.3986	-.2437	-.2050	-.1851	-.1674	-.1472	-.1337	-.1239	-.1255	-.1139

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0448	-.0429	-.0461	-.0342	-.0272	-.0431	-.0416	-.0596	-.0847	-.1423	-.1705	-.2356	-.2544	-.2516	-.2230
100.000	-.0694	-.0781	-.0816	-.0615	-.0437	-.0627	-.0736	-.0949	-.0896	-.1633	-.1517	-.2185	-.2348	-.2111	-.1958
110.000	.0000	-.0889	-.0738	-.0841	-.0881	-.1019	-.1018	-.1100	-.1269	-.1373	-.1741	-.2091	-.2000	-.2011	.0000
120.000						-.1523								-.1592	
130.000						-.1608								-.1363	
140.000						-.1343								-.1128	
150.000						-.1120								-.0988	
160.000						-.1114								-.0816	
170.000						-.1087								-.0775	
180.000	-.1074	-.1131	-.0998	-.1068	-.0992	-.0993	-.1020	-.1191	-.1089	-.1117	-.1032	-.1073	-.0921	-.0772	-.0282

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0411		
70.000							.0115	.0076	.0000
80.000							-.0010	-.0371	-.0183
90.000	-.2105	-.1368	-.0837	-.0266	.0000	.0000	-.0010	-.0410	-.0452
100.000	-.1598	-.0744	-.0146	.0465	.0354	.0084			
110.000	-.1232	-.0376	.0644	.1391	.1117	-.0180			
120.000						-.0389			
130.000						.0439			
140.000						-.1392			
150.000						.0055			
160.000						.2271			
170.000						.2738			
180.000	-.0091	.0468	.1036	.1461	.2074	.0343			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .749 ALPHA (7) = 4.238

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1027	.0386	-.0930												
70.000	.1399	.0742	-.0528												
80.000	.0972	.0624	-.0438												
90.000			-.0295	-.2562	-.4085	-.2390	-.1682	-.1422	-.1263	-.1487	-.1233	-.0986	-.0800	-.0693	-.0911
100.000						-.2653	-.2106	-.1969	-.1548	-.1318	-.1019	-.1392	-.1006	-.1322	-.1020
110.000						-.3008	-.2681	-.2550	-.1953	-.1591	-.1386	-.1268	-.1246	-.1627	-.1156
120.000						-.3462								.0000	
130.000						-.5573								-.1695	
140.000						-.5636								-.1624	
150.000						-.4583								-.1507	
160.000						-.4572								-.1573	
170.000						-.4479								-.1417	
180.000						-.4296	-.3029	-.2227	-.1750	-.1698	-.1507	-.1341	-.1289	-.1259	-.1197

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0817	-.0561	-.0563	-.0468	-.0476	-.0743	-.0666	-.0838	-.1206	-.1813	-.2134	-.2683	-.3318	-.3066	-.2613
100.000	-.0906	-.1015	-.1045	-.0770	-.0711	-.0996	-.1068	-.1209	-.1273	-.2201	-.2010	-.2747	-.2980	-.2678	-.2395
110.000	.0000	-.0956	-.1035	-.1097	-.1103	-.1233	-.1400	-.1350	-.1628	-.1913	-.2226	-.2634	-.2561	-.2564	.0000
120.000						-.1947								-.2281	
130.000						-.1988								-.1713	
140.000						-.1589								-.1436	
150.000						-.1295								-.1347	
160.000						-.1314								-.1025	
170.000						-.1195								-.0964	
180.000	-.1070	-.1111	-.1081	-.1026	-.0996	-.1043	-.0998	-.1220	-.1339	-.1256	-.1106	-.1108	-.0928	-.0776	-.0360

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0566		
70.000							.0076	.0269	.0000
80.000							.0097	-.0308	-.0021
90.000	-.2847	-.1705	-.0854	-.0310	.0000	.0000	-.0019	-.0460	-.0266
100.000	-.1934	-.0845	-.0329	.0362	.0257	.0097			
110.000	-.1601	-.0465	.0450	.1359	.1322	.0086			
120.000						-.0166			
130.000						.0235			
140.000						-.1762			
150.000						-.0226			
160.000						.1919			
170.000						.2360			
180.000	-.0284	.0429	.0825	.1226	.1679	.0305			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .751 ALPHA (8) = 6.358

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4510
PHI															
60.000	.1004	.0421	-.0803												
70.000	.1138	.0810	-.0434												
80.000	.0708	.0747	-.0502												
90.000			-.0387	-.2714	-.4331	-.2445	-.1875	-.1557	-.1358	-.1697	-.1339	-.1164	-.0802	-.0908	-.1109
100.000						-.2831	-.2271	-.2184	-.1650	-.1437	-.1311	-.1341	-.1180	-.1322	-.1202
110.000						-.2938	-.2911	-.2684	-.2069	-.1924	-.1563	-.1409	-.1412	-.1973	-.1507
120.000						-.3819								.0000	
130.000						-.6250								-.2049	
140.000						-.6543								-.1855	
150.000						-.5393								-.1616	
160.000						-.5656								-.1442	
170.000						-.5932								-.1303	
180.000						-.6012	-.3808	-.2405	-.1683	-.1590	-.1322	-.1384	-.1191	-.1199	-.1235

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0738	-.0782	-.0736	-.0613	-.0684	-.0872	-.0906	-.1097	-.1549	-.2192	-.2686	-.3440	-.3876	-.3668	-.3049
100.000	-.1109	-.1231	-.1081	-.0970	-.0926	-.1130	-.1205	-.1566	-.1502	-.2630	-.2551	-.3191	-.3643	-.3213	-.2847
110.000	.0000	-.1245	-.1351	-.1476	-.1354	-.1618	-.1843	-.1751	-.2140	-.2436	-.2811	-.3127	-.3199	-.3144	.0000
120.000						-.2249								-.2606	
130.000						-.2106								-.1880	
140.000						-.1632								-.1583	
150.000						-.1433								-.1358	
160.000						-.1316								-.1098	
170.000						-.1225								-.1065	
180.000	-.1147	-.1185	-.1182	-.1100	-.1090	-.1183	-.1255	-.1264	-.1305	-.1283	-.1198	-.1167	-.1079	-.0862	-.0510

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0554		
70.000							.0137	.0254	.0000
80.000							.0035	-.0304	-.0023
90.000	-.2985	-.2070	-.0959	-.0418	.0000	.0000	.0014	-.0354	-.0175
100.000	-.2311	-.1324	-.0534	.0237	.0263	.0163			
110.000	-.2038	-.0854	.0320	.1303	.1254	.0019			
120.000						-.0028			
130.000						-.0010			
140.000						-.2216			
150.000						-.0616			
160.000						.1312			
170.000						.1635			
180.000	-.0298	.0193	.0695	.0914	.1366	.0619			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (2) = .751 ALPHA (9) = 8.548

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.0857	.0436	-.0725												
70.000	.1000	.0763	-.0489												
80.000	.0379	.0670	-.0291												
90.000			-.0162	-.2539	-.4134	-.2534	-.1978	-.1643	-.1547	-.1978	-.1536	-.1363	-.0999	-.0914	-.1228
100.000						-.2759	-.2570	-.2175	-.1791	-.1602	-.1344	-.1813	-.1283	-.1736	-.1174
110.000						-.3184	-.3248	-.3215	-.2502	-.2167	-.1978	-.1758	-.1605	-.2023	-.1761
120.000						-.4148								.0000	
130.000						-.6758								-.2039	
140.000						-.6840								-.1769	
150.000						-.6198								-.1673	
160.000						-.6530								-.1485	
170.000						-.6571								-.1357	
180.000						-.5755	-.5212	-.3045	-.2099	-.1553	-.1437	-.1204	-.1141	-.1313	-.1045

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0769	-.0898	-.0958	-.0777	-.0777	-.1091	-.0956	-.1278	-.1740	-.2563	-.2965	-.3737	-.4538	-.4496	-.3303
100.000	-.1225	-.1457	-.1375	-.1211	-.1110	-.1506	-.1578	-.1709	-.1973	-.2866	-.3017	-.3546	-.4088	-.3557	-.3140
110.000	.0000	-.1588	-.1706	-.1837	-.1757	-.2060	-.1898	-.2190	-.2440	-.2843	-.3373	-.3726	-.3698	-.3557	.0000
120.000						-.2770								-.2953	
130.000						-.2393								-.2197	
140.000						-.1943								-.1794	
150.000						-.1448								-.1516	
160.000						-.1498								-.1327	
170.000						-.1231								-.1299	
180.000	-.1209	-.1100	-.1190	-.1228	-.1261	-.1186	-.1317	-.1476	-.1389	-.1523	-.1397	-.1452	-.1238	-.1093	-.0760

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0160		
70.000							.0029	-.0097	.0000
80.000							-.0115	-.0655	-.0410
90.000	-.3211	-.1932	-.1108	-.0424	.0000	.0000	-.0029	-.0608	-.0455
100.000	-.2521	-.1331	-.0666	.0270	.0312	.0116			
110.000	-.2234	-.0955	.0142	.1321	.1347	.0118			
120.000						.0006			
130.000						-.0321			
140.000						-.2831			
150.000						-.0955			
160.000						.0746			
170.000						.0740			
180.000	-.0571	.0071	.0297	.0660	.0970	.1349			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .851 ALPHA (1) = -8.320

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1958	.0802	-.1934												
70.000	.2742	.1111	-.1254												
80.000	.2993	.1209	-.0895												
90.000			-.1075	-.3776	-.7684	-.2996	-.1156	-.0816	-.0563	-.0746	-.0416	-.0303	.0129	.0285	.0370
100.000						-.4378	-.1651	-.1166	-.0676	-.0498	-.0021	-.0338	.0109	-.0251	.0139
110.000						-.5430	-.1971	-.1551	-.0881	-.0543	-.0303	.0084	.0187	-.0134	.0149
120.000						-.6630								.0000	
130.000						-.3197								-.0248	
140.000						-.7812								-.0246	
150.000						-.5649								-.0443	
160.000						-.4484								-.0648	
170.000						-.2624								-.0765	
180.000						-.1696	-.1141	-.1236	-.1419	-.1421	-.1166	-.1108	-.0768	-.0943	-.0568

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0629	.0357	.0500	.0763	.0848	.0923	.1150	.1266	.1143	.0934	.0584	.0223	-.0081	-.0031	.0066
100.000	.0423	.0117	.0415	.0517	.0730	.0628	.0861	.1017	.1098	.0700	.0559	.0368	.0022	.0027	.0118
110.000	.0000	.0232	.0337	.0435	.0505	.0490	.0753	.1095	.1070	.1004	.0541	.0310	.0396	.0406	.0000
120.000						.0435								.0531	
130.000						.0242								.0396	
140.000						.0015								.0644	
150.000						.0204								.0436	
160.000						.0257								.0318	
170.000						.0093								.0060	
180.000	-.0755	-.0561	-.0499	-.0533	-.0118	-.0158	-.0255	-.0293	-.0156	-.0153	-.0129	.0045	.0027	.0278	.1009

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0293		
70.000							-.0144	-.0511	.0000
80.000							-.0108	-.0650	-.0880
90.000	.0037	.0200	.0759	.0518	.0000	.0000	-.0122	-.0753	-.0700
100.000	.0341	.0795	.1037	.1233	.0570	-.0007			
110.000	.0883	.1158	.1718	.1984	.0891	-.0674			
120.000						-.0883			
130.000						.1091			
140.000						.1172			
150.000						.1861			
160.000						.3768			
170.000						.4671			
180.000	.0891	.1747	.2399	.3045	.3749	.2257			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .690 ALPHA (2) = -6.234

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1773	.0848	-.1783												
70.000	.2573	.1025	-.1172												
80.000	.2603	.0972	-.0831												
90.000			-.0921	-.3751	-.7724	-.2773	-.1449	-.0906	-.0545	-.0746	-.0387	-.0179	.0074	.0106	-.0041
100.000						-.3430	-.1615	-.1136	-.0758	-.0462	-.0217	-.0472	-.0121	-.0383	-.0079
110.000						-.3505	-.2046	-.1520	-.0961	-.0608	-.0327	-.0118	-.0188	-.0400	-.0054
120.000						-.6390								.0000	
130.000						-.8398								-.0530	
140.000						-.5776								-.0647	
150.000						-.4633								-.0767	
160.000						-.4267								-.0754	
170.000						-.3400								-.0929	
180.000						-.2606	-.0956	-.1124	-.1189	-.1397	-.1206	-.1036	-.1051	-.0943	-.0871

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0116	.0229	.0402	.0430	.0615	.0696	.0920	.0822	.0684	.0448	.0167	-.0190	-.0421	-.0533	-.0421
100.000	-.0056	.0131	.0109	.0462	.0505	.0485	.0574	.0589	.0747	.0222	.0295	-.0081	-.0470	-.0350	-.0428
110.000	.0000	.0049	.0299	.0247	.0362	.0447	.0403	.0531	.0571	.0322	.0202	-.0066	-.0198	-.0315	-.0300
120.000						.0111								-.0124	
130.000						-.0035								.0056	
140.000						-.0192								.0048	
150.000						-.0055								.0199	
160.000						-.0235								.0101	
170.000						-.0375								-.0020	
180.000	-.0784	-.0840	-.0577	-.0382	-.0500	-.0426	-.0358	-.0545	-.0606	-.0639	-.0241	-.0386	-.0142	-.0005	.0528

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0386		
70.000							-.0064	-.0326	.0000
80.000							-.0251	-.0699	-.0557
90.000	-.0598	-.0824	.0184	.0296	.0000	.0000	-.0345	-.0499	-.0619
100.000	-.0070	.0239	.0816	.0828	.0251	-.0059			
110.000	.0298	.0805	.1285	.1628	.0947	-.0631			
120.000						-.0691			
130.000						.1129			
140.000						.0661			
150.000						.1669			
160.000						.3503			
170.000						.4310			
180.000	.0840	.1428	.2101	.2664	.3562	.2089			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .848 ALPHA (3) = -4.147

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.1646	.0890	-.1660												
70.000	.2433	.1060	-.1008												
60.000	.2400	.0909	-.0865												
90.000			-.0744	-.3442	-.7455	-.3442	-.1518	-.1059	-.0867	-.0795	-.0509	-.0255	-.0148	-.0053	-.0138
100.000						-.3896	-.1892	-.1290	-.0838	-.0506	-.0245	-.0488	-.0248	-.0523	-.0218
110.000						-.6038	-.2545	-.1669	-.1008	-.0599	-.0390	-.0333	-.0266	-.0831	-.0371
120.000						-.6722								.0000	
130.000						-.6485								-.0731	
140.000						-.6254								-.0466	
150.000						-.6410								-.0953	
160.000						-.5182								-.1101	
170.000						-.4253								-.1188	
180.000						-.3610	-.1478	-.0956	-.1164	-.1290	-.1151	-.0981	-.1016	-.1163	-.0848

X/L	.4500	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	.0007	.0049	.0142	.0361	.0527	.0481	.0568	.0503	.0324	-.0085	-.0160	-.0748	-.1033	-.1018	-.0945
100.000	-.0138	-.0133	-.0001	.0144	.0421	.0268	.0206	.0254	.0218	-.0138	-.0196	-.0601	-.0975	-.0802	-.0839
110.000	.0000	-.0151	.0102	.0102	.0180	.0155	.0115	.0211	.0259	-.0087	-.0300	-.0590	-.0652	-.0677	.0000
120.000						-.0163								-.0387	
130.000						-.0492								-.0280	
140.000						-.0439								-.0255	
150.000						-.0339								-.0224	
160.000						-.0451								-.0188	
170.000						-.0507								-.0272	
180.000	-.0970	-.0748	-.0878	-.0841	-.0538	-.0604	-.0711	-.0793	-.0815	-.0767	-.0580	-.0555	-.0433	-.0257	.0262

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0324		
70.000							.0032	-.0089	.0000
60.000							-.0098	-.0542	-.0419
90.000	-.1008	-.0834	-.0049	.0109	.0000	.0000	-.0161	-.0587	-.0563
100.000	-.0871	-.0030	.0349	.0458	.0248	-.0305			
110.000	-.0239	.0348	.1134	.1488	.0987	-.0730			
120.000						-.0715			
130.000						.1066			
140.000						.0255			
150.000						.1272			
160.000						.3234			
170.000						.3998			
180.000	.0348	.1136	.1677	.2398	.3218	.1822			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .851 ALPHA (4) = -2.004

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1602	.0584	-.1474												
70.000	.2241	.1043	-.0856												
80.000	.2153	.1173	-.0631												
90.000			-.0558	-.3189	-.7268	-.3560	-.1754	-.1216	-.0928	-.1028	-.0728	-.0470	-.0278	-.0211	-.0405
100.000						-.4516	-.2044	-.1529	-.1073	-.0813	-.0543	-.0688	-.0468	-.0684	-.0318
110.000						-.6439	-.2480	-.1959	-.1384	-.0938	-.0623	-.0478	- 0448	-.0772	-.0246
120.000						-.6607								.0000	
130.000						-.9443								-.0876	
140.000						-.8299								-.1018	
150.000						-.7070								-.0971	
160.000						-.6967								-.1026	
170.000						-.7260								-.1036	
180.000						-.6812	-.4957	-.3133	-.2157	-.1464	-.1113	-.0973	-.1043	-.0846	-.0806

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0104	-.0029	.0058	.0093	.0223	.0258	.0329	.0274	.0066	-.0315	-.0673	-.1201	-.1693	-.1939	-.1665
100.000	-.0293	-.0348	-.0241	-.0049	.0110	-.0019	.0008	-.0046	.0063	-.0546	-.0597	-.1206	-.1574	-.1513	-.1576
110.000	.0000	-.0241	-.0159	-.0194	-.0161	-.0072	-.0157	-.0071	-.0239	-.0487	-.0734	-.1013	-.1376	-.1434	.0000
120.000						-.0528								-.1026	
130.000						-.0771								-.0868	
140.000						-.0812								-.0719	
150.000						-.0563								-.0531	
160.000						-.0726								-.0544	
170.000						-.0685								-.0536	
180.000	-.0822	-.0908	-.0752	-.0792	-.0754	-.0776	-.0908	-.0908	-.0906	-.0934	-.0835	-.0805	-.0615	-.0455	.0021

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0204		
70.000							-.0069	-.0066	.0000
80.000							-.0249	-.0501	-.0316
90.000	-.1763	-.1117	-.0392	-.0164	.0000	.0000	-.0263	-.0484	-.0386
100.000	-.1262	-.0481	.0133	.0522	.0216	-.0345			
110.000	-.0808	.0069	.0946	.1585	.1011	-.0592			
120.000						-.0617			
130.000						.0923			
140.000						-.0242			
150.000						.0911			
160.000						.2968			
170.000						.3497			
180.000	.0119	.0925	.1602	.2220	.2989	.1588			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .851 ALPHA (5) = .065

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1538	.0676	-.1227												
70.000	.2155	.1017	-.0752												
80.000	.1907	.0989	-.0526												
90.000			-.0309	-.2972	-.7071	-.4439	-.2041	-.1596	-.1178	-.1316	-.0988	-.0753	-.0376	-.0364	-.0433
100.000						-.5095	-.2474	-.1939	-.1323	-.1033	-.0813	-.0941	-.0558	-.0819	-.0478
110.000						-.7251	-.2959	-.2364	-.1611	-.1326	-.1028	-.0702	-.0637	-.0986	-.0605
120.000						-.7035								.0000	
130.000						-.9431								-.1133	
140.000						-.8292								-.1158	
150.000						-.7686								-.1175	
160.000						-.7551								-.1165	
170.000						-.7476								-.1093	
180.000						-.7461	-.6042	-.4320	-.2894	-.1689	-.1278	-.0976	-.0879	-.0906	-.0847

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0182	-.0251	-.0217	-.0015	-.0022	-.0117	.0112	.0061	-.0192	-.0722	-.1156	-.1927	-.2426	-.2695	-.2344
100.000	-.0416	-.0523	-.0493	-.0291	-.0112	-.0276	-.0197	-.0271	-.0281	-.1016	-.1148	-.1808	-.2213	-.2284	-.2209
110.000	.0000	-.0583	-.0431	-.0495	-.0468	-.0505	-.0443	-.0423	-.0486	-.0814	-.1336	-.1772	-.1942	-.2241	.0000
120.000						-.0971								-.1749	
130.000						-.1065								-.1377	
140.000						-.1014								-.1174	
150.000						-.0727								-.1034	
160.000						-.0859								-.0839	
170.000						-.0793								-.0859	
180.000	-.0924	-.0924	-.0767	-.0866	-.0824	-.0829	-.0796	-.1004	-.0996	-.1070	-.1009	-.1032	-.0875	-.0730	-.0072

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0202		
70.000							-.0101	-.0140	.0000
80.000							-.0272	-.0476	-.0262
90.000	-.2497	-.1650	-.0687	-.0236	.0000	.0000	-.0365	-.0591	-.0478
100.000	-.2046	-.0819	-.0154	.0434	.0174	-.0416			
110.000	-.1494	-.0356	.0701	.1405	.0869	-.0762			
120.000						-.0673			
130.000						.0643			
140.000						-.0810			
150.000						.0476			
160.000						.2605			
170.000						.3141			
180.000	.0033	.0751	.1381	.1875	.2560	.1201			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .850 ALPHA (6) = 2.232

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1365	.0571	-.1118												
70.000	.1647	.1043	-.0628												
80.000	.1545	.0762	-.0358												
90.000			-.0222	-.2901	-.6864	-.3225	-.2082	-.1626	-.1295	-.1410	-.1125	-.1024	-.0615	-.0543	-.0752
100.000						-.3576	-.2614	-.2223	-.1503	-.1330	-.1072	-.1140	-.0817	-.1044	-.0630
110.000						-.5628	-.3291	-.2742	-.1972	-.1536	-.1230	-.0999	-.0837	-.1321	-.0895
120.000						-.6551								.0000	
130.000						-.9645								-.1594	
140.000						-.7687								-.1421	
150.000						-.6945								-.1301	
160.000						-.7276								-.1212	
170.000						-.7539								-.1099	
180.000						-.7705	-.6413	-.5176	-.3369	-.2426	-.1649	-.1144	-.0967	-.0877	-.0827

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0413	-.0380	-.0385	-.0158	-.0091	-.0243	-.0094	-.0285	-.0513	-.1124	-.1486	-.2342	-.3122	-.3333	-.3226
100.000	-.0645	-.0740	-.0647	-.0430	-.0320	-.0455	-.0488	-.0600	-.0600	-.1383	-.1534	-.2342	-.2848	-.3006	-.3175
110.000	.0000	-.0712	-.0665	-.0672	-.0712	-.0842	-.0824	-.0775	-.1025	-.1335	-.1745	-.2335	-.2596	-.2851	.0000
120.000						-.1346								-.2373	
130.000						-.1375								-.1969	
140.000						-.1253								-.1684	
150.000						-.0961								-.1359	
160.000						-.0997								-.1087	
170.000						-.0834								-.1090	
180.000	-.0850	-.0937	-.0782	-.0862	-.0867	-.0915	-.0923	-.1083	-.0999	-.1129	-.1171	-.1107	-.1059	-.0869	-.0352

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0305		
70.000							-.0184	-.0141	.0000
80.000							-.0360	-.0591	-.0331
90.000	-.3885	-.2073	-.0978	-.0369	.0000	.0000	-.0341	-.0596	-.0439
100.000	-.3108	-.1396	-.0395	.0447	.0107	-.0423			
110.000	-.2371	-.0930	.0497	.1360	.0969	-.0526			
120.000						-.0533			
130.000						.0587			
140.000						-.1224			
150.000						.0003			
160.000						.2195			
170.000						.2654			
180.000	-.0179	.0802	.1092	.1542	.2102	.0823			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .850 ALPHA (7) = 4.439

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1237	.0401	-.0999												
70.000	.1522	.0966	-.0536												
80.000	.1134	.0926	-.0303												
90.000			-.0097	-.2677	-.6500	-.3251	-.2312	-.1901	-.1555	-.1731	-.1453	-.1245	-.0817	-.0682	-.0979
100.000						-.3504	-.2753	-.2367	-.2099	-.1676	-.1377	-.1523	-.1113	-.1377	-.0899
110.000						-.4308	-.3352	-.3144	-.2497	-.2031	-.1651	-.1352	-.1175	-.1587	-.1190
120.000						-.6324								.0000	
130.000						-.8977								-.1776	
140.000						-.7196								-.1552	
150.000						-.6700								-.1549	
160.000						-.7341								-.1350	
170.000						-.7619								-.1325	
180.000						-.7504	-.6889	-.5944	-.4807	-.3640	-.2189	-.1557	-.1203	-.1048	-.0866

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0815	-.0505	-.0545	-.0353	-.0274	-.0341	-.0265	-.0435	-.0851	-.1468	-.1981	-.2738	-.3687	-.3977	-.3959
100.000	-.0681	-.0919	-.0797	-.0752	-.0488	-.0658	-.0726	-.0800	-.0927	-.1907	-.1940	-.2702	-.3474	-.3489	-.3887
110.000	.0000	-.0987	-.0899	-.1019	-.0932	-.1086	-.1077	-.1188	-.1409	-.1757	-.2192	-.2855	-.3225	-.3560	.0000
120.000						-.1767								-.3070	
130.000						-.1650								-.2405	
140.000						-.1465								-.1836	
150.000						-.1084								-.1532	
160.000						-.1013								-.1293	
170.000						-.0902								-.1207	
180.000	-.0827	-.0767	-.0627	-.0830	-.0822	-.0930	-.1008	-.1135	-.1163	-.1315	-.1295	-.1194	-.1275	-.1034	-.0463

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0194		
70.000							-.0137	-.0120	.0000
80.000							-.0411	-.0418	-.0327
90.000	-.4792	-.2971	-.1217	-.0549	.0000	.0000	-.0481	-.0608	-.0392
100.000	-.4115	-.2046	-.0696	.0211	.0006	-.0368			
110.000	-.3310	-.1196	.0252	.1256	.0796	-.0428			
120.000						-.0377			
130.000						.0258			
140.000						-.1666			
150.000						-.0531			
160.000						.1529			
170.000						.1805			
180.000	-.0362	.0266	.0824	.0975	.1526	.0702			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .849 ALPHA (8) = 8.512

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0929	.0324	-.0982												
70.000	.1256	.0716	-.0535												
80.000	.0846	.0803	-.0229												
90.000			-.0204	-.2573	-.6527	-.3038	-.2210	-.1937	-.1841	-.2177	-.1701	-.1465	-.0972	-.1037	-.1116
100.000						-.3226	-.2631	-.2481	-.2255	-.2070	-.1623	-.1711	-.1476	-.1721	-.1276
110.000						-.4014	-.3083	-.3208	-.3113	-.2418	-.2175	-.1860	-.1795	-.1993	-.1601
120.000						-.5550								.0000	
130.000						-.6311								-.2310	
140.000						-.6238								-.2098	
150.000						-.6584								-.1940	
160.000						-.7139								-.1656	
170.000						-.7245								-.1526	
180.000						-.7330	-.7110	-.6598	-.5623	-.4720	-.3539	-.2230	-.1753	-.1491	-.1024

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0715	-.0674	-.0512	-.0427	-.0330	-.0520	-.0509	-.0680	-.1066	-.1791	-.2215	-.3104	-.4026	-.4359	-.4548
100.000	-.1151	-.1226	-.0901	-.0767	-.0614	-.0834	-.1010	-.1142	-.1267	-.2228	-.2212	-.3081	-.3826	-.3920	-.4519
110.000	.0000	-.1293	-.1278	-.1291	-.1158	-.1276	-.1341	-.1542	-.1819	-.2190	-.2611	-.3145	-.3633	-.3965	.0000
120.000						-.2064								-.3346	
130.000						-.1956								-.2758	
140.000						-.1585								-.2073	
150.000						-.1132								-.1720	
160.000						-.1135								-.1506	
170.000						-.0975								-.1265	
180.000	-.0807	-.0782	-.0747	-.0792	-.0799	-.0954	-.1158	-.1193	-.1399	-.1437	-.1516	-.1402	-.1440	-.1158	-.0908

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0002		
70.000							-.0421	-.0486	.0000
80.000							-.0729	-.0868	-.0312
90.000	-.5285	-.3648	-.1517	-.0804	.0000	.0000	-.0620	-.1012	-.0452
100.000	-.4630	-.2509	-.0843	.0093	.0093	-.0579			
110.000	-.3927	-.1594	.0074	.1014	.0763	-.0368			
120.000						-.0156			
130.000						.0264			
140.000						-.2319			
150.000						-.0822			
160.000						.0739			
170.000						.0935			
180.000	-.0703	-.0121	.0206	.0516	.1040	.0952			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (3) = .849 ALPHA (9) = 8.673

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0730	.0328	-.0796												
70.000	.0910	.0619	-.0515												
80.000	.0596	.0602	-.0199												
90.000			-.0006	-.2424	-.6078	-.2918	-.2111	-.2018	-.2060	-.2341	-.1940	-.1684	-.1198	-.1188	-.1338
100.000						-.3252	-.2682	-.2582	-.2577	-.2281	-.1895	-.1980	-.1737	-.2072	-.1398
110.000						-.3801	-.3129	-.3422	-.3480	-.2825	-.2492	-.2216	-.2044	-.2446	-.2027
120.000						-.4734								.0000	
130.000						-.6467								-.2735	
140.000						-.5996								-.2558	
150.000						-.6683								-.2014	
160.000						-.7097								-.1924	
170.000						-.7222								-.1765	
180.000						-.7122	-.7087	-.6761	-.6139	-.5055	-.3929	-.2765	-.1964	-.1650	-.1051

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0951	-.0852	-.0790	-.0475	-.0485	-.0642	-.0599	-.0858	-.1249	-.2091	-.2481	-.3439	-.4408	-.4761	-.4974
100.000	-.1301	-.1401	-.1269	-.0962	-.0877	-.1099	-.1214	-.1432	-.1534	-.2530	-.2626	-.3513	-.4288	-.4393	-.515[illegible]
110.000	.0000	-.1684	-.1584	-.1499	-.1421	-.1686	-.1697	-.1829	-.2119	-.2678	-.3121	-.3844	-.4021	-.4494	.0000
120.000						-.2438								-.3866	
130.000						-.2109								-.2816	
140.000						-.1697								-.2132	
150.000						-.1280								-.1793	
160.000						-.1227								-.1705	
170.000						-.1107								-.1685	
180.000	-.0982	-.0845	-.0900	-.0852	-.0925	-.1041	-.1209	-.1371	-.1521	-.1557	-.1723	-.1787	-.1708	-.1588	-.1058

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0626		
70.000							-.1105	-.1346	.0000
80.000							-.1368	-.1697	-.1009
90.000	-.5710	-.3697	-.1274	-.0692	.0000	.0000	-.1360	-.1637	-.1211
100.000	-.5037	-.2297	-.0784	-.0016	.0204	-.0506			
110.000	-.4229	-.1575	.0116	.0873	.0951	-.0198			
120.000						-.0042			
130.000						-.0109			
140.000						-.2850			
150.000						-.1201			
160.000						.0172			
170.000						.0078			
180.000	-.1077	-.0548	-.0144	.0187	.0597	.1300			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .991 ALPHA (1) = -8.296

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2860	.1668	-.0899												
70.000	.3458	.2060	-.0132												
80.000	.3636	.2034	.0080												
90.000			.0009	-.2808	-.6093	-.6138	-.5831	-.5300	-.4862	-.4814	-.3647	-.2654	-.1875	-.1647	-.1283
100.000						-.6319	-.6282	-.5798	-.5315	-.4748	-.3425	-.2467	-.2049	-.1363	-.1194
110.000						-.7117	-.6713	-.6478	-.5793	-.4765	-.3536	-.2434	-.2101	-.2091	-.1624
120.000						-.5255								.0000	
130.000						-.6874								-.2260	
140.000						-.7423								-.2892	
150.000						-.6836								-.3155	
160.000						-.6697								-.3373	
170.000						-.6237								-.3768	
180.000						-.5609	-.5015	-.4479	-.4050	-.4244	-.4083	-.4040	-.3977	-.3939	-.3810

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0340	-.0158	.0603	.1202	.1183	.1486	.1670	.1862	.1853	.1692	.1423	.1096	.0756	.0725	.0771
100.000	-.0795	-.0026	.0248	.0910	.1021	.1415	.1633	.1597	.1756	.1528	.1409	.1101	.0865	.0926	.0834
110.000	.0000	-.0325	.0508	.0671	.0758	.1235	.1436	.1517	.1602	.1602	.1345	.1148	.1021	.1040	.0000
120.000						.1068								.1127	
130.000						.0783								.1208	
140.000						.0708								.1132	
150.000						.0786								.1134	
160.000						.0594								.1049	
170.000						.0589								.0936	
180.000	-.3946	-.3934	-.0196	-.0174	.0267	.0483	.0433	.0578	.0570	.0646	.0685	.0713	.0846	.0907	.1708

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0611		
70.000							.0310	-.0012	.0000
80.000							.0209	-.0326	-.0243
90.000	.0746	.1054	.1387	.1391	.0000	.0000	.0177	-.0367	-.0297
100.000	.1160	.1511	.1783	.1900	.1394	.0476			
110.000	.1495	.1909	.2473	.2671	.1731	-.0025			
120.000						.0085			
130.000						.2221			
140.000						.2039			
150.000						.2801			
160.000						.4537			
170.000						.5180			
180.000	.1753	.2668	.3312	.3986	.4617	.3370			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .947 ALPHA (2) = -6.175

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2403	.1431	-.1027												
70.000	.3110	.1846	-.0309												
80.000	.3219	.1787	-.0058												
90.000			-.0077	-.2954	-.6213	-.6208	-.5761	-.5254	-.4892	-.4974	-.4247	-.3407	-.1381	-.1063	-.0255
100.000						-.6568	-.6154	-.5761	-.5320	-.4932	-.3994	-.3497	-.2178	-.1438	-.0138
110.000						-.7241	-.6658	-.6490	-.5978	-.5088	-.4039	-.3174	-.2524	-.1511	-.0321
120.000						-.5777								.0000	
130.000						-.7596								-.2512	
140.000						-.8392								-.1174	
150.000						-.7762								-.1148	
160.000						-.7667								-.2772	
170.000						-.7352								-.2774	
180.000						-.6440	-.5623	-.4989	-.4539	-.4643	-.4487	-.4588	-.4079	-.3858	-.1492

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0357	.0404	.0657	.0982	.1079	.1383	.1353	.1438	.1348	.1037	.1022	.0590	.0229	.0053	.0024
100.000	.0191	.0088	.0337	.0954	.0999	.1186	.1227	.1270	.1234	.0823	.1003	.0585	.0324	.0267	.0124
110.000	.0000	-.0179	.0214	.0754	.0804	.0965	.1092	.1187	.1108	.0892	.0939	.0652	.0516	.0459	.0000
120.000						.0631								.0597	
130.000						.0427								.0785	
140.000						.0318								.0815	
150.000						.0467								.0823	
160.000						.0375								.0844	
170.000						.0230								.0837	
180.000	-.3201	-.0776	-.0139	.0046	.0150	.0182	.0092	.0054	.0054	.0080	.0474	.0502	.0590	.0896	.1195

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0246		
70.000							-.0131	-.0302	.0000
80.000							-.0290	-.0631	-.0302
90.000	-.0134	.0246	.0645	.0847	.0000	.0000	-.0361	-.0665	-.0313
100.000	.0297	.0758	.1117	.1281	.0765	.0196			
110.000	.0883	.1238	.1863	.2118	.1625	-.0188			
120.000						.0009			
130.000						.2004			
140.000						.1546			
150.000						.2347			
160.000						.4175			
170.000						.4830			
180.000	.1297	.2084	.2651	.3249	.4283	.3121			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .951 ALPHA (3) = -4.069

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2269	.1537	-.1041												
70.000	.2939	.1705	-.0308												
80.000	.2920	.1676	-.0030												
90.000			.0041	-.2891	-.6127	-.6151	-.5666	-.5235	-.4841	-.5069	-.4581	-.3874	-.1816	-.0899	-.2046
100.000						-.6443	-.6074	-.5739	-.5334	-.5034	-.4400	-.4166	-.1748	-.1204	-.1399
110.000						-.7028	-.6569	-.6461	-.6093	-.5411	-.4485	-.3318	-.2272	-.1396	-.2302
120.000						-.5793								.0000	
130.000						-.7747								-.1504	
140.000						-.8791								-.2652	
150.000						-.8081								-.3785	
160.000						-.7942								-.3863	
170.000						-.7815								-.4249	
180.000						-.6870	-.6201	-.5617	-.5164	-.5084	-.49	-.4355	-.3510	-.4402	-.3490

X/L	.4500	.4680	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0850	-.0254	.0251	.0572	.0770	.1072	.1117	.1184	.1063	.0801	.0616	.0068	-.0467	-.1646	-.0737
100.000	-.1591	-.0365	.0001	.0475	.0801	.0898	.0902	.0926	.1006	.0635	.0626	.0096	-.0247	-.0379	-.0614
110.000	.0000	-.0183	.0223	.0178	.0355	.0692	.0827	.0853	.0812	.0704	.0519	.0129	-.0069	-.0216	.0000
120.000						.0197								.0002	
130.000						.0229								.0231	
140.000						.0127								.0337	
150.000						.0309								.0434	
160.000						.0210								.0498	
170.000						.0172								.0512	
180.000	-.3728	-.1068	-.0786	-.0039	.0086	.0061	-.0053	-.0001	.0108	.0186	.0266	.0288	.0399	.0623	.0866

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0169		
70.000							-.0614	-.0822	.0000
80.000							-.0775	-.1123	-.0440
90.000	-.0954	-.0257	.0318	.0592	.0000	.0000	-.0883	-.1024	-.0449
100.000	-.0384	.0277	.0832	.1221	.0855	.0054			
110.000	-.0028	.0772	.1628	.2194	.1574	-.0288			
120.000						.0045			
130.000						.1857			
140.000						.1016			
150.000						.1893			
160.000						.3804			
170.000						.4427			
180.000	.1021	.1819	.2459	.3155	.4004	.2905			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .950 ALPHA (4) = -1.944

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2085	.1295	-.0881												
70.000	.2726	.1688	-.0233												
80.000	.2836	.1870	.0067												
90.000			.0185	-.2783	-.6051	-.5976	-.5541	-.4995	-.4550	-.4728	-.4579	-.4115	-.3153	-.0198	-.0382
100.000						-.6221	-.5945	-.5607	-.5035	-.4933	-.4352	-.4234	-.3498	-.0447	-.0772
110.000						-.6786	-.6141	-.6297	-.5981	-.5295	-.4631	-.3895	-.1907	-.0913	-.0490
120.000						-.5957								.0000	
130.000						-.7999								-.3240	
140.000						-.9379								-.3282	
150.000						-.8717								-.3616	
160.000						-.8556								-.3265	
170.000						-.8393								-.1851	
180.000						-.7427	-.6754	-.6087	-.5591	-.5387	-.5248	-.4770	-.3733	-.4264	-.2727

X/L	.4300	.4480	.4860	.5050	.5240	.5460	.5610	.5800	.5380	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0132	-.0021	.0022	.0072	.0928	.0857	.1077	.0921	.0757	.0402	.0226	-.0368	-.0958	-.1209	-.1538
100.000	-.0271	-.0450	-.0252	.0008	.0748	.0644	.0800	.0681	.0712	.0191	.0264	-.0306	-.0740	-.0886	-.1436
110.000	.0000	-.0426	-.0431	.0389	.0344	.0405	.0613	.0560	.0499	.0269	.0134	-.0253	-.0531	-.0766	.0000
120.000						.0086								-.0593	
130.000						-.0051								-.0306	
140.000						-.0015								-.0075	
150.000						.0134								.0112	
160.000						.0158								.0202	
170.000						.0132								.0269	
180.000	-.1728	-.2970	-.0641	-.0144	.0173	.0044	-.0084	-.0150	-.0103	-.0181	.0119	.0150	.0278	.0435	.0726

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0321		
70.000							-.0727	-.1474	.0000
80.000							-.0968	-.1791	-.0321
90.000	-.2009	-.1039	-.0192	.0175	.0000	.0000	-.0979	-.1868	-.0566
100.000	-.1413	-.0421	.0420	.0900	.0513	-.0066			
110.000	-.0891	.0170	.1228	.1852	.1498	-.0303			
120.000						.0133			
130.000						.1775			
140.000						.0642			
150.000						.1595			
160.000						.3535			
170.000						.4074			
180.000	.0805	.1537	.2154	.2725	.3594	.2758			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .949 ALPHA (5) = .254

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1646	.1153	-.0697												
70.000	.2368	.1491	-.0313												
80.000	.2206	.1472	.0009												
90.000			.0188	-.2720	-.5775	-.5895	-.5169	-.4382	-.4068	-.4415	-.4332	-.4219	-.1544	-.2217	-.0513
100.000						-.6018	-.5734	-.5041	-.4491	-.4517	-.4394	-.4380	-.0567	-.3255	-.0790
110.000						-.6526	-.6071	-.5996	-.5367	-.5230	-.4729	-.4149	-.0781	-.3730	-.1711
120.000						-.5966								.0000	
130.000						-.8192								-.3514	
140.000						-.9824								-.3411	
150.000						-.9248								-.2837	
160.000						-.9016								-.4346	
170.000						-.8974								-.3977	
180.000						-.7955	-.7172	-.6464	-.5878	-.5589	-.5370	-.4550	-.1110	-.2329	-.0668

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0018	-.1448	-.1089	-.0101	.0173	.0772	.0728	.0669	.0504	.0073	-.0094	-.0772	-.1507	-.1864	-.2294
100.000	-.0654	-.0868	-.0651	-.0762	.0372	.0443	.0447	.0399	.0435	-.0235	-.0041	-.0701	-.1354	-.1510	-.2274
110.000	.0000	-.1925	-.1190	-.1888	-.0275	.0507	.0253	.0255	.0122	-.0166	-.0282	-.0763	-.1021	-.1371	.0000
120.000						.0051								-.1215	
130.000						-.0321								-.0859	
140.000						-.0249								-.0475	
150.000						-.0041								-.0198	
160.000						-.0091								-.0051	
170.000						-.0057								.0160	
180.000	-.1502	-.1547	-.1103	-.0590	.0171	-.0069	-.0138	-.0136	-.0247	-.0299	.0034	-.0015	.0053	.0326	.0291

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0268		
70.000							-.0807	-.1684	.0000
80.000							-.0991	-.2373	-.0072
90.000	-.3087	-.2736	-.0933	-.0278	.0000	.0000	-.1023	-.2516	-.0168
100.000	-.2658	-.1880	-.0253	.0548	.0235	-.0250			
110.000	-.2251	-.0811	.0743	.1652	.1355	-.0368			
120.000						.0077			
130.000						.1560			
140.000						.0131			
150.000						.1076			
160.000						.3066			
170.000						.3644			
180.000	.0494	.1247	.1828	.2350	.3196	.2190			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .992 ALPHA (6) = 2.387

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.1693	.1114	-.0583												
70.000	.2165	.1516	-.0021												
80.000	.1962	.1410	.0295												
90.000			.0484	-.2435	-.5343	-.5395	-.4620	-.4027	-.3826	-.4272	-.4019	-.4097	-.3702	-.3482	-.3204
100.000						-.5619	-.5368	-.4543	-.4170	-.4300	-.4278	-.4656	-.3810	-.3728	-.2171
110.000						-.6162	-.5839	-.5424	-.5094	-.5273	-.5031	-.4662	-.3934	-.3929	-.3181
120.000						-.5719								.0000	
130.000						-.8056								-.4383	
140.000						-.9957								-.4338	
150.000						-.9453								-.4376	
160.000						-.9111								-.4620	
170.000						-.9153								-.4120	
180.000						-.8132	-.7621	-.6838	-.6025	-.5992	-.5561	-.5376	-.5157	-.3256	-.0661

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1783	-.0183	.0207	.0507	.0570	.0563	.0788	.0769	.0537	.0012	-.0387	-.1142	-.1971	-.2396	-.2587
100.000	-.0229	-.0539	-.0012	.0405	.0495	.0386	.0499	.0450	.0414	-.0308	-.0449	-.1173	-.1861	-.2143	-.2619
110.000	.0000	-.0335	-.0097	-.0003	.0198	.0030	.0284	.0192	.0026	-.0284	-.0712	-.1319	-.1723	-.2119	.0000
120.000						-.0572								-.2148	
130.000						-.0454								-.1711	
140.000						-.0250								-.1388	
150.000						-.0028								-.1092	
160.000						.0142								-.0865	
170.000						.0206								-.0597	
180.000	-.0354	-.0156	.0183	.0129	.0155	.0152	.0137	.0059	-.0080	-.0274	-.0270	-.0430	-.0564	-.0342	.0383

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0467		
70.000							-.1212	-.0693	.0000
80.000							-.1413	-.1343	-.0481
90.000	-.3325	-.3525	-.1990	-.0536	.0000	.0000	-.1494	-.2578	-.0533
100.000	-.2897	-.2789	-.1025	.0300	.0102	-.0725			
110.000	-.2795	-.1765	.0390	.1501	.0921	-.0743			
120.000						-.0263			
130.000						.1092			
140.000						-.0549			
150.000						.0476			
160.000						.2328			
170.000						.2764			
180.000	.0739	.1348	.1874	.2202	.2543	.1811			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REP024)

MACH (4) = .949 ALPHA (F) = 4.492

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1231	.0635	-.1018												
70.000	.1749	.1113	-.0256												
80.000	.1297	.0533	.0064												
90.000			.0408	-.2554	-.5117	-.4982	-.4071	-.3616	-.3474	-.3979	-.4024	-.3852	-.3852	-.3586	-.1324
100.000						-.5141	-.4777	-.4199	-.3918	-.4074	-.4168	-.4503	-.4171	-.4244	-.2413
110.000						-.5880	-.5466	-.5124	-.4787	-.4957	-.5053	-.4987	-.4484	-.4632	-.2912
120.000						-.5802								.0000	
130.000						-.8269								-.4627	
140.000						-1.0470								-.4439	
150.000						-.9954								-.4265	
160.000						-.9621								-.1870	
170.000						-.9647								-.1762	
180.000						-.8783	-.7959	-.7033	-.6439	-.6104	-.5596	-.5337	-.4656	-.1604	-.0925

X/L	.4900	.4480	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2244	.0086	-.0028	.0350	.0621	.0560	.0632	.0587	.0205	-.0414	-.0800	-.1682	-.2474	-.2714	-.3056
100.000	-.1101	-.0132	-.0083	.0142	.0378	.0392	.0288	.0146	.0065	-.0771	-.0905	-.1699	-.2259	-.2407	-.3183
110.000	.0000	-.0275	-.0243	-.0111	-.0007	-.0033	-.0053	-.0157	-.0412	-.0872	-.1271	-.1852	-.2161	-.2474	.0000
120.000						-.0863								-.2570	
130.000						-.0810								-.2077	
140.000						-.0407								-.1587	
150.000						-.0131								-.1132	
160.000						-.0115								-.0828	
170.000						.0011								-.0608	
180.000	-.0033	-.0166	-.0118	.0050	.0078	.0099	.0070	-.0115	-.0307	-.0525	-.0668	-.0709	-.0591	-.0350	.0059

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0724		
70.000							-.1295	-.2237	.0000
80.000							-.1492	-.3000	-.0600
90.000	-.3727	-.4087	-.3621	-.1926	.0000	.0000	-.1651	-.3100	-.0591
100.000	-.3331	-.3668	-.2156	-.0438	-.0424	-.1055			
110.000	-.3268	-.2913	-.0386	.0889	.0393	-.0967			
120.000						-.0469			
130.000						.0768			
140.000						-.1148			
150.000						-.0102			
160.000						.1648			
170.000						.1967			
180.000	.0419	.1020	.1443	.1743	.2109	.1801			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .995 ALPHA (8) = 8.680

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1079	.0901	-.1056												
70.000	.1339	.0999	-.0415												
80.000	.0858	.1070	.0443												
90.000			.0260	-.2292	-.5261	-.4994	-.3747	-.3195	-.2911	-.3315	-.3360	-.3678	-.3445	-.3581	-.3789
100.000						-.5093	-.4502	-.3813	-.3534	-.5350	-.3714	-.4414	-.4102	-.4700	-.4036
110.000						-.5796	-.5155	-.4844	-.4558	-.4613	-.4781	-.4885	-.4808	-.5111	-.4522
120.000						-.5933								.0000	
130.000						-.6480								-.4322	
140.000						-1.0060								-.3079	
150.000						-1.0360								-.2270	
160.000						-.9925								-.2338	
170.000						-.9933								-.2596	
180.000						-.9071	-.8159	-.7309	-.6583	-.5691	-.5287	-.3079	-.1981	-.1383	-.0585

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0437	-.0099	-.0182	.0428	.0501	.0365	.0384	.0273	-.0112	-.0686	-.0987	-.1872	-.2757	-.3119	-.3568
100.000	-.1808	-.0191	-.0104	.0177	.0244	.0121	.0001	-.0186	-.0259	-.1160	-.1114	-.1951	-.2607	-.2977	-.3713
110.000	.0000	-.0367	-.0306	-.0276	-.0240	-.0381	-.0517	-.0634	-.0868	-.1298	-.1554	-.2301	-.2614	-.3065	.0000
120.000						-.1236								-.3197	
130.000						-.1026								-.2590	
140.000						-.0615								-.2021	
150.000						-.0395								-.1561	
160.000						-.0238								-.1284	
170.000						-.0091								-.1195	
180.000	-.0870	-.0179	-.0014	.0229	.0182	.0039	-.0112	-.0302	-.0467	-.0715	-.0708	-.0889	-.0937	-.0915	-.0543

X/L	.7280	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0726		
70.000							-.1296	-.2229	.0000
80.000							-.1640	-.2995	-.1052
90.000	-.4324	-.4095	-.4000	-.2568	.0000	.0000	-.1735	-.3146	-.1079
100.000	-.3878	-.4290	-.3416	-.1002	.1029	-.1208			
110.000	-.3691	-.3903	-.1262	.0391	.0070	-.1097			
120.000						-.0595			
130.000						.0607			
140.000						-.1541			
150.000						-.0406			
160.000						.1062			
170.000						.0848			
180.000	-.0291	.0365	.0870	.1229	.1431	.2532			

AMES, 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (4) = .955 ALPHA (9) = 8.821

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0781	.0258	-.1028												
70.000	.0988	.0777	-.0364												
80.000	.0333	.0876	.0069												
90.000			.0454	-.1892	-.4991	-.4739	-.3271	-.2424	-.2366	-.3146	-.3400	-.3527	-.3350	-.3430	-.3783
100.000						-.4838	-.4111	-.3168	-.2895	-.3323	-.3596	-.4224	-.4139	-.4631	-.4252
110.000						-.5429	-.4873	-.4144	-.4052	-.4442	-.4713	-.4870	-.4971	-.5552	-.5100
120.000						-.5848								.0000	
130.000						-.8483								-.4053	
140.000						-1.1040								-.3212	
150.000						-1.0690								-.2788	
160.000						-1.0150								-.2177	
170.000						-1.0150								-.2059	
180.000						-.9343	-.8438	-.7102	-.6027	-.5658	-.2996	-.2942	-.2153	-.2059	-.1202

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.3516	-.3524	-.0044	.0309	.0384	.0203	.0351	.0211	-.0183	-.0848	-.1222	-.2097	-.3096	-.3551	-.3891
100.000	-.4264	-.2594	-.0169	-.0032	.0083	-.0169	-.0129	-.0292	-.0378	-.1351	-.1348	-.2245	-.3017	-.3296	-.4123
110.000	.0000	-.0572	-.0551	-.0630	-.0555	-.0766	-.0693	-.0833	-.1122	-.1587	-.1968	-.2697	-.3138	-.3677	.0000
120.000						-.1740								-.3739	
130.000						-.0993								-.2836	
140.000						-.0977								-.2221	
150.000						-.0366								-.1959	
160.000						-.0435								-.1842	
170.000						-.0053								-.1763	
180.000	-.0642	-.0190	-.0129	-.0047	.0081	.0013	-.0180	-.0292	-.0528	-.0786	-.0893	-.1174	-.1374	-.1465	-.0958

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0690		
70.000							-.1178	-.2202	.0000
80.000							-.1388	-.2762	-.2805
90.000	-.4604	-.4986	-.5286	-.3209	.0000	.0000	-.1365	-.2974	-.2803
100.000	-.3189	-.4600	-.4105	-.1633	-.1339	-.0744			
110.000	-.4173	-.4297	-.1710	-.0136	-.0268	-.0659			
120.000						-.0100			
130.000						.0382			
140.000						-.1902			
150.000						-.0455			
160.000						.0609			
170.000						-.0559			
180.000	-.0752	-.0027	.0516	.0929	.1364	.3223			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.053 ALPHA (1) = -8.301

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3924	.3034	.0537												
70.000	.4654	.3403	.1341												
80.000	.4798	.3360	.1595												
90.000			.1514	-.1106	-.4116	-.4227	-.4079	-.3522	-.3256	-.3455	-.2656	-.1900	-.1153	-.0801	-.0540
100.000						-.4374	-.4370	-.4022	-.3634	-.3239	-.2512	-.1981	-.1279	-.1160	-.0536
110.000						-.5083	-.4725	-.4653	-.4127	-.3313	-.2496	-.1768	-.1277	-.1314	-.0586
120.000						-.3419								.0000	
130.000						-.4981								-.1494	
140.000						-.5535								-.1727	
150.000						-.5011								-.1910	
160.000						-.4898								-.2157	
170.000						-.4590								-.2405	
180.000						-.3889	-.3420	-.2885	-.2560	-.2588	-.2551	-.2599	-.2518	-.2531	-.2477

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0336	-.0505	-.0435	-.0472	-.0411	-.0088	.0630	.1160	.1418	.1451	.1355	.1102	.0883	.0822	.1011
100.000	-.0479	-.0711	-.0650	-.0640	-.0542	-.0320	.0268	.0890	.1311	.1208	.1336	.1141	.0994	.1036	.1122
110.000	.0000	-.0616	-.0629	-.0694	-.0700	-.0563	-.0011	.0651	.0960	.1162	.1183	.1183	.1134	.1152	.0000
120.000						-.0918								.1285	
130.000						-.1363								.1423	
140.000						-.1567								.1441	
150.000						-.1547								.1522	
160.000						-.1855								.1554	
170.000						-.2096								.1452	
180.000	-.2610	-.2591	-.2384	-.2384	-.2451	-.2453	-.2351	-.1875	-.1087	.0165	.0703	.0942	.1183	.1498	.2198

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1347		
70.000							.1085	.0704	.0000
80.000							.0908	.0390	.0629
90.000	.1147	1659	.2050	.2173	.0000	.0000	.0793	.0383	.0579
100.000	.1536	.2088	.2481	.2706	.2283	.1480			
110.000	.1859	.2527	.3177	.3422	.2677	.1145			
120.000						.1359			
130.000						.3330			
140.000						.2856			
150.000						.3609			
160.000						.5288			
170.000						.5815			
180.000	.2513	.3345	.4014	.4678	.5338	.4289			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (5) = 1.053 ALPHA (2) = -6.153

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3735	.2897	.0485												
70.000	.4435	.3266	.1308												
80.000	.4511	.3242	.1568												
90.000			.1581	-.1141	-.4109	-.4284	-.4011	-.3603	-.3378	-.3629	-.3014	-.2369	-.1260	-.1125	-.0912
100.000						-.4434	-.4420	-.4081	-.3762	-.3531	-.2889	-.2431	-.1610	-.1386	-.0927
110.000						-.5071	-.4771	-.4752	-.4350	-.3682	-.2944	-.2077	-.1625	-.1381	-.0951
120.000						-.3655								.0000	
130.000						-.5370								-.1768	
140.000						-.6138								-.2068	
150.000						-.5512								-.2278	
160.000						-.5458								-.2513	
170.000						-.5257								-.2782	
180.000						-.4419	-.3966	-.3492	-.3121	-.3116	-.3051	-.2976	-.2898	-.2917	-.2822

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0649	-.0782	-.0735	-.0774	-.0719	-.0335	.0485	.0949	.1109	.1041	.0991	.0663	.0256	.0037	.0057
100.000	-.0860	-.1026	-.0950	-.0945	-.0852	-.0615	.0065	.0603	.0962	.0831	.0937	.0663	.0374	.0251	.0172
110.000	.0000	-.0941	-.0943	-.1037	-.1045	-.0867	-.0237	.0356	.0684	.0794	.0910	.0667	.0540	.0374	.0000
120.000						-.1322								.0516	
130.000						-.1740								.0788	
140.000						-.1986								.0816	
150.000						-.1946								.0923	
160.000						-.2218								.0987	
170.000						-.2465								.1039	
180.000	-.2958	-.3010	-.2819	-.2828	-.2845	-.2611	-.2182	-.1840	-.0349	.0205	.0613	.0659	.0886	.1153	.1891

X/L	.7200	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1027		
70.000							.0696	.0065	.0000
80.000							.0533	-.0258	.0165
90.000	.0024	.0836	.1524	.1841	.0000	.0000	.0435	-.0193	.0081
100.000	.0540	.1375	.2049	.2417	.2065	.1298			
110.000	.0958	.1915	.2769	.3201	.2558	.1023			
120.000						.1290			
130.000						.3083			
140.000						.2331			
150.000						.3121			
160.000						.4860			
170.000						.5381			
180.000	.2217	.2999	.3726	.4352	.4964	.3902			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (5) = 1.055 ALPHA (3) = -4.041

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3578	.2750	.0571												
70.000	.4163	.3097	.1294												
80.000	.4191	.3102	.1567												
90.000			.1647	-.1092	-.3986	-.4198	-.3860	-.3498	-.3324	-.3636	-.3265	-.2744	-.1923	-.1654	-.1277
100.000						-.4361	-.4253	-.3974	-.3701	-.3655	-.3143	-.2877	-.2017	-.1965	-.1155
110.000						-.4883	-.4646	-.4582	-.4366	-.3939	-.3265	-.2418	-.1995	-.2012	-.1227
120.000						-.3746								.0000	
130.000						-.5498								-.2138	
140.000						-.6521								-.2397	
150.000						-.5866								-.2568	
160.000						-.5788								-.2802	
170.000						-.5627								-.3056	
180.000						-.4745	-.4419	-.3961	-.3568	-.3494	-.3411	-.3301	-.3223	-.3171	-.3030

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0825	-.0856	-.0780	-.0863	-.0867	-.0619	.0257	.0703	.0895	.0884	.0704	.0345	-.0191	-.0521	-.0549
100.000	-.0971	-.1097	-.0954	-.1025	-.0989	-.0863	-.0130	.0392	.0748	.0609	.0629	.0323	-.0079	-.0255	-.0511
110.000	.0000	-.1054	-.0984	-.1149	-.1201	-.1123	-.0530	.0110	.0458	.0534	.0514	.0306	.0046	-.0198	.0000
120.000						-.1716								-.0213	
130.000						-.1997								-.0024	
140.000						-.2201								.0133	
150.000						-.2159								.0319	
160.000						-.2358								.0463	
170.000						- 76								.0540	
180.000	-.3253	-.3318	-.3164	-.3051	-.2904	-.2066	-.1785	-.1304	-.0287	.0246	.0352	.0345	.0431	.0667	.1572

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0863		
70.000							.0465	-.0527	.0000
80.000							.0301	-.0994	-.0307
90.000	-.1103	-.0505	.0790	.1445	.0000	.0000	.0216	-.1009	-.0399
100.000	-.0862	.0322	.1387	.2088	.1834	.0977			
110.000	-.0182	.1046	.2256	.2971	.2253	.0819			
120.000						.1214			
130.000						.2919			
140.000						.1939			
150.000						.2725			
160.000						.4465			
170.000						.4950			
180.000	.1917	.2728	.3458	.4100	.4586	.3611			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.037 ALPHA (4) = -1.901

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3368	.2662	.0835												
70.000	.3959	.3022	.1260												
80.000	.3874	.3179	.1587												
90.000			.1692	-.1062	-.3956	-.4070	-.3630	-.3275	-.3048	-.3301	-.3040	-.2661	-.2127	-.1886	-.1527
100.000						-.4307	-.4000	-.3745	-.3414	-.3399	-.3046	-.2796	-.2207	-.2289	-.1531
110.000						-.4769	-.4385	-.4379	-.4131	-.3924	-.3186	-.2573	-.2166	-.2246	-.1600
120.000						-.3933								.0000	
130.000						-.5807								-.2385	
140.000						-.7081								-.2536	
150.000						-.6500								-.2700	
160.000						-.6319								-.3004	
170.000						-.6256								-.3071	
180.000						-.5365	-.4771	-.4292	-.3798	-.3697	-.3558	-.3533	-.3394	-.3405	-.3342

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1078	-.0899	-.0847	-.0897	-.0931	-.0686	.0151	.0559	.0786	.0664	.0672	.0277	-.0352	-.0676	-.0993
100.000	-.1260	-.1155	-.1068	-.1064	-.1042	-.0936	-.0261	.0314	.0672	.0408	.0663	.0247	-.0162	-.0429	-.1020
110.000	.0000	-.1103	-.1077	-.1220	-.1276	-.1230	-.0687	.0030	.0236	.0406	.0559	.0179	-.0054	-.0394	.0000
120.000						-.1896								-.0460	
130.000						-.2344								-.0279	
140.000						-.2439								-.0140	
150.000						-.2166								.0036	
160.000						-.2033								.0212	
170.000						-.1665								.0323	
180.000	-.3307	-.3405	-.3097	-.2769	-.2087	-.1455	-.1102	-.0475	.0120	.0240	.0434	.0301	.0349	.0524	.1281

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0728		
70.000							.0287	-.0702	.0000
80.000							.0105	-.1271	-.0537
90.000	-.1637	-.1670	-.0086	.0835	.0000	.0000	.0029	-.1440	-.0602
100.000	-.1307	-.0847	.0617	.1582	.1362	.0719			
110.000	-.1148	-.0059	.1709	.2512	.2081	.0669			
120.000						.1201			
130.000						.2777			
140.000						.1558			
150.000						.2393			
160.000						.4216			
170.000						.4612			
180.000	.1661	.2452	.3068	.3540	.4241	.3365			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (5) = 1.049 ALPHA (5) = .178

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2800	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3010	.2431	.0856												
70.000	.3562	.2769	.1228												
80.000	.3402	.2773	.1533												
90.000			.1669	-.1585	-.3900	-.3878	-.3478	-.2933	-.2655	-.2959	-.2933	-.2867	-.2478	-.2382	-.2210
100.000						-.4176	-.3975	-.3508	-.3071	-.3082	-.2996	-.3068	-.2600	-.2827	-.2077
110.000						-.4668	-.4202	-.4316	-.3929	-.3828	-.3331	-.2916	-.2650	-.2816	-.2125
120.000						-.4108								.0000	
130.000						-.6082								-.2768	
140.000						-.7542								-.2835	
150.000						-.7017								-.2970	
160.000						-.6738								-.3184	
170.000						-.6741								-.3460	
180.000						-.5929	-.5325	-.4798	-.4279	-.4121	-.3905	-.3807	-.3548	-.3613	-.3526

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1483	-.1294	-.1156	-.1209	-.1200	-.1034	-.0110	.0481	.0657	.0565	.0481	-.0058	-.0713	-.1061	-.1401
100.000	-.1709	-.1570	-.1418	-.1363	-.1315	-.1298	-.0403	.0181	.0512	.0337	.0450	-.0058	-.0586	-.0799	-.1457
110.000	.0000	-.1546	-.1464	-.1586	-.1607	-.1596	-.0775	-.0150	.0187	.0365	.0244	-.0180	-.0502	-.0839	.0000
120.000						-.2368								-.0945	
130.000						-.2643								-.0686	
140.000						-.2485								-.0489	
150.000						-.1833								-.0313	
160.000						-.1465								-.0145	
170.000						-.1308								.0011	
180.000	-.3560	-.3366	-.2653	-.1993	-.1599	-.0984	-.0640	.0010	.0181	.0179	.0239	.0101	.0130	.0261	.0919

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0313		
70.000							-.0152	-.0965	.0000
80.000							-.0389	-.1585	-.1284
90.000	-.2054	-.2342	-.1739	.0015	.0000	.0000	-.0427	-.1810	-.1167
100.000	-.1701	-.1868	-.0455	.1012	.0979	.0280			
110.000	-.1737	-.1302	.0956	.2122	.1703	.0369			
120.000						.0972			
130.000						.2435			
140.000						.0901			
150.000						.1841			
160.000						.3614			
170.000						.3980			
180.000	.1398	.2112	.2587	.3011	.3560	.2719			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (5) = 1.049 ALPHA (6) = 2.351

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2554	.2074	.0421												
70.000	.3028	.2422	.1050												
80.000	.2830	.2346	.1370												
90.000			.1587	-.1200	-.3878	-.3622	-.2756	-.2301	-.2165	-.2673	-.2730	-.2837	-.2714	-.2712	-.2534
100.000						-.3698	-.3542	-.2776	-.2509	-.2747	-.2850	-.3236	-.2913	-.3205	-.2599
110.000						-.4607	-.3918	-.3678	-.3349	-.3516	-.3443	-.3255	-.3024	-.3346	-.2699
120.000						-.4185								.0000	
130.000						-.6271								-.3194	
140.000						-.7999								-.3163	
150.000						-.7504								-.3187	
160.000						-.7200								-.3377	
170.000						-.7160								-.3592	
180.000						-.6328	-.5762	-.5162	-.4615	-.4332	-.3969	-.3802	-.3647	-.3662	-.3669

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1950	-.1690	-.1422	-.1311	-.1198	-.0928	.0015	.0527	.0709	.0527	.0381	-.0201	-.0897	-.1272	-.1693
100.000	-.2098	-.1947	-.1618	-.1553	-.1368	-.1263	-.0248	.0360	.0707	.0226	.0350	-.0185	-.0755	-.0988	-.1788
110.000	.0000	-.1993	-.1719	-.1834	-.1764	-.1629	-.0739	.0184	.0386	.0193	.0089	-.0378	-.0722	-.1030	.0000
120.000						-.2605								-.1217	
130.000						-.2402								-.0882	
140.000						-.1588								-.0605	
150.000						-.1018								-.0354	
160.000						-.0816								-.0199	
170.000						-.0552								.0065	
180.000	-.3503	-.2797	-.2087	-.1708	-.1107	-.0359	.0007	.0220	.0237	.0193	.0269	.0188	.0193	.0274	.0703

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0036		
70.000							-.0495	-.1079	.0000
80.000							-.0659	-.1733	-.1819
90.000	-.2382	-.2714	-.2784	-.0779	.0000	.0000	-.0699	-.1999	-.1812
100.000	-.1994	-.2338	-.1672	.0418	.0528	-.0014			
110.000	-.2084	-.2069	.0194	.1724	.1307	.0104			
120.000						.0884			
130.000						.2182			
140.000						.0421			
150.000						.1335			
160.000						.3153			
170.000						.3438			
180.000	.1202	.1878	.2270	.2492	.2889	.2180			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (5) = 1.054 ALPHA (7) = 4.435

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2260	.1673	.0045												
70.000	.2618	.2113	.0798												
80.000	.2284	.2282	.1143												
90.000			.1497	-.1408	-.3983	-.3630	-.2249	-.1724	-.1788	-.2418	-.2577	-.2761	-.2454	-.2436	-.2447
100.000						-.4020	-.3025	-.2271	-.2175	-.2465	-.2743	-.3288	-.2987	-.3083	-.2498
110.000						-.4527	-.3946	-.3146	-.3006	-.3329	-.3469	-.3461	-.3249	-.3422	-.2897
120.000						-.4367								.0000	
130.000						-.6527								-.3487	
140.000						-.8446								-.3376	
150.000						-.7987								-.3363	
160.000						-.7528								-.3463	
170.000						-.7537								-.3585	
180.000						-.6876	-.6166	-.5551	-.4994	-.4644	-.4176	-.3821	-.3666	-.3668	-.3352

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1984	-.1970	-.1765	-.1717	-.1500	-.0120	.0395	.0896	.0870	.0399	.0315	-.0326	-.1195	-.1662	-.1994
100.000	-.2353	-.2274	-.1987	-.1944	-.1709	-.0782	.0122	.0615	.0745	.0135	.0247	-.0410	-.1104	-.1419	-.2175
110.000	.0000	-.2231	-.2105	-.2305	-.2174	-.1295	-.0352	.0370	.0304	.0035	-.0095	-.0683	-.1119	-.1563	.0000
120.000						-.1465								-.1829	
130.000						-.1133								-.1379	
140.000						-.0563								-.1044	
150.000						-.0254								-.0676	
160.000						-.0094								-.0445	
170.000						.0067								-.0248	
180.000	-.2879	-.1961	-.1241	-.0975	-.0351	.0161	.0324	.0353	.0344	.0322	.0339	.0097	-.0029	-.0044	.0429

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0294		
70.000							-.0850	-.1358	.0000
80.000							-.0999	-.2025	-.2281
90.000	-.2872	-.2948	-.3300	-.1869	.0000	.0000	-.0982	-.2285	-.2401
100.000	-.2278	-.2868	-.2702	-.0116	.0087	-.0472			
110.000	-.2333	-.2493	-.0464	.1381	.1145	-.0147			
120.000						.0799			
130.000						.1907			
140.000						-.0105			
150.000						.0824			
160.000						.2343			
170.000						.2393			
180.000	.1013	.1639	.2015	.2273	.2543	.2418			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (RE8024)

MACH (9) = 1.052 ALPHA (8) = 6.559

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1800	.1334	-.0123												
70.000	.2041	.1774	.0585												
80.000	.1992	.1947	.1110												
90.000			.1477	-.1278	-.3787	-.3347	-.1882	-.1705	-.1725	-.2368	-.2519	-.2608	-.2200	-.2174	-.2519
100.000						-.3670	-.2517	-.2251	-.2174	-.2430	-.2683	-.3204	-.2801	-.3118	-.2674
110.000						-.4328	-.3514	-.3025	-.3038	-.3361	-.3512	-.3499	-.3484	-.3898	-.3101
120.000						-.4261								.0000	
130.000						-.6458								-.4083	
140.000						-.8505								-.3646	
150.000						-.8130								-.3446	
160.000						-.7623								-.3405	
170.000						-.7606								-.3441	
180.000						-.7058	-.6594	-.5939	-.5350	-.4931	-.4385	-.3950	-.3657	-.3361	-.2514

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2109	-.2405	-.2281	-.2281	-.1879	-.0352	.0236	.0886	.0983	.0419	.0168	-.0594	-.1461	-.1916	-.2183
100.000	-.2594	-.2798	-.2629	-.2483	-.2148	-.1206	-.0136	.0716	.0833	.0139	.0021	-.0706	-.1394	-.1704	-.2395
110.000	.0000	-.3082	-.2854	-.2861	-.2726	-.2001	-.0616	.0432	.0343	-.0037	-.0437	-.1069	-.1485	-.1947	.0000
120.000						-.1175								-.2272	
130.000						-.0814								-.1671	
140.000						-.0594								-.1131	
150.000						-.0188								-.0870	
160.000						-.0107								-.0631	
170.000						.0080								-.0463	
180.000	-.1897	-.1351	-.0900	-.0535	-.0178	.0236	.0488	.0597	.0519	.0397	.0144	-.0118	-.0260	-.0315	.0186

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0579		
70.000							-.1143	-.1643	.0000
80.000							-.1272	-.2267	-.2619
90.000	-.2817	-.3047	-.3380	-.2573	.0000	.0000	-.1254	-.2529	-.2678
100.000	-.2420	-.2781	-.3024	-.0514	-.0151	-.1084			
110.000	-.2478	-.2625	-.1150	.1178	.0844	-.0525			
120.000						.0657			
130.000						.1570			
140.000						-.0654			
150.000						.0449			
160.000						.1703			
170.000						.1345			
180.000	.0561	.1242	.1724	.2099	.2227	.3172			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.040 ALPHA (9) = 8.842

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1293	.0847	-.0377												
70.000	.1352	.1220	.0092												
80.000	.0873	.1356	.0654												
90.000			.1149	-.1589	-.3869	-.3064	-.2102	-.1862	-.1691	-.2188	-.2195	-.2305	-.2242	-.2327	-.2872
100.000						-.3308	-.2716	-.2443	-.2168	-.2351	-.2424	-.2974	-.2863	-.3417	-.3170
110.000						-.3957	-.3370	-.3198	-.3057	-.3337	-.3431	-.3548	-.3679	-.4189	-.3874
120.000						-.4500								.0000	
130.000						-.6936								-.5239	
140.000						-.9209								-.4377	
150.000						-.8901								-.3916	
160.000						-.8351								-.3548	
170.000						-.8386								-.3222	
180.000						-.7814	-.7238	-.6554	-.5865	-.5145	-.4514	-.3876	-.3283	-.3003	-.1942

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2598	-.2819	-.2745	-.2587	-.2467	-.1924	.0965	.1040	.0804	.0154	-.0155	-.0906	-.1704	-.2166	-.2761
100.000	-.3194	-.3441	-.3257	-.3132	-.2793	-.1980	.0646	.0701	.0606	-.0359	-.0380	-.1049	-.1678	-.1974	-.3010
110.000	.0000	-.3894	-.3658	-.3798	-.3601	-.1928	.0310	.0240	-.0087	-.0666	-.0935	-.1506	-.1827	-.2275	.0000
120.000						-.1105								-.2601	
130.000						-.0459								-.1727	
140.000						-.0247								-.1263	
150.000						-.0109								-.1323	
160.000						-.0003								-.1089	
170.000						.0138								-.0890	
180.000	-.1569	-.1398	-.0857	-.0840	-.0104	.0191	.0231	.0240	.0163	-.0020	-.0092	-.0262	-.0449	-.0618	-.0571

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0732		
70.000							-.1121	-.1602	.0000
80.000							-.1190	-.2191	-.2628
90.000	-.3451	-.3706	-.4050	-.3879	.0000	.0000	-.1345	-.2459	-.2744
100.000	-.3095	-.3466	-.3763	-.1563	-.0665	-.1532			
110.000	-.3187	-.3443	-.2021	.0350	.0300	-.0798			
120.000						.0526			
130.000						.1235			
140.000						-.1047			
150.000						.0461			
160.000						.1638			
170.000						-.0194			
180.000	-.0365	.0408	.1080	.1494	.1967	.4114			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (6) = 1.097 ALPHA (1) = -8.255

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4449	.3582	.1105												
70.000	.3139	.3912	.1883												
80.000	.3303	.3884	.2145												
90.000			.2088	-.0516	-.3419	-.3555	-.3296	-.2809	-.2568	-.2762	-.2036	-.1183	-.0363	-.0166	-.0116
100.000						-.3660	-.3581	-.3302	-.2919	-.2556	-.1871	-.1377	-.0507	-.0484	-.0111
110.000						-.4409	-.3919	-.3689	-.3417	-.2613	-.1873	-.1183	-.0649	-.0583	-.0177
120.000						-.2753								.0000	
130.000						-.4281								-.0952	
140.000						-.4792								-.1174	
150.000						-.4294								-.1369	
160.000						-.4198								-.1545	
170.000						-.3889								-.1818	
180.000						-.3219	-.2681	-.2202	-.1864	-.1696	-.1909	-.1945	-.1885	-.1962	-.1894

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0110	.0029	.0129	-.0009	.0033	.0140	.0793	.1373	.1703	.1678	.1646	.1474	.1202	.1148	.1338
100.000	-.0026	-.0177	-.0096	-.0126	-.0082	-.0105	.0336	.1063	.1516	.1437	.1613	.1428	.1268	.1334	.1482
110.000	.0000	-.0084	-.0082	-.0160	-.0221	-.0236	.0102	.0808	.1228	.1396	.1516	.1428	.1449	.1494	.0000
120.000						-.0456								.1611	
130.000						-.0830								.1775	
140.000						-.1013								.1826	
150.000						-.0976								.1892	
160.000						-.1278								.1905	
170.000						-.1537								.1860	
180.000	-.1931	-.1927	-.1775	-.1747	-.1802	-.1667	-.1907	-.1440	-.1162	-.0534	.0438	.1217	.1624	.1909	.2658

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1907		
70.000							.1629	.1238	.0000
80.000							.1471	.0970	.1149
90.000	.1933	.2084	.2506	.2648	.0000	.0000	.1350	.0950	.1118
100.000	.1924	.2490	.2936	.3159	.2772	.2049			
110.000	.2269	.2932	.3587	.3815	.3213	.1757			
120.000						.2007			
130.000						.3678			
140.000						.3387			
150.000						.4103			
160.000						.5753			
170.000						.6248			
180.000	.2957	.3752	.4437	.5078	.5802	.4778			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.100 ALPHA (2) = -6.202

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4291	.3458	.1130												
70.000	.4978	.3884	.1928												
80.000	.5038	.3768	.2185												
90.000			.2188	-.0437	-.3322	-.3478	-.3209	-.2818	-.2818	-.2928	-.2299	-.1486	-.0706	-.0473	-.0370
100.000						-.3637	-.3596	-.3269	-.2971	-.2803	-.2171	-.1658	-.0799	-.0801	-.0363
110.000						-.4262	-.3945	-.3915	-.3524	-.2886	-.2220	-.1514	-.0901	-.0833	-.0403
120.000						-.2876								.0000	
130.000						-.4530								-.1180	
140.000						-.5289								-.1440	
150.000						-.4722								-.1630	
160.000						-.4645								-.1838	
170.000						-.4481								-.2098	
180.000						-.3660	-.3115	-.2675	-.2303	-.2273	-.2220	-.2293	-.2223	-.2238	-.2180

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0152	-.0226	-.0124	-.0209	-.0247	-.0128	.0541	.1253	.1517	.1455	.1382	.1082	.0670	.0478	.0428
100.000	-.0312	-.0446	-.0338	-.0370	-.0321	-.0349	.0108	.0935	.1349	.1195	.1314	.1035	.0741	.0685	.0552
110.000	.0000	-.0321	-.0302	-.0416	-.0463	-.0507	-.0189	.0634	.1065	.1129	.1141	.0996	.0935	.0747	.0000
120.000						-.0732								.0847	
130.000						-.1198								.1001	
140.000						-.1385								.1235	
150.000						-.1351								.1401	
160.000						-.1629								.1510	
170.000						-.1876								.1519	
180.000	-.2223	-.2227	-.2089	-.2077	-.2087	-.2098	-.1868	-.1601	-.1165	-.0325	.0547	.0996	.1320	.1657	.2355

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1730		
70.000							.1421	.0742	.0000
80.000							.1239	.0446	.0832
90.000	.0387	.1200	.2082	.2347	.0000	.0000	.1174	.0511	.0811
100.000	.0884	.1758	.2552	.2913	.2558	.1692			
110.000	.1304	.2349	.3249	.3695	.3041	.1675			
120.000						.1957			
130.000						.3741			
140.000						.2991			
150.000						.3743			
160.000						.5417			
170.000						.5895			
180.000	.2737	.3553	.4214	.4810	.5458	.4503			

AMES 66-630 PRESSURE VENTING - INTEG. VENICLE (REB024)

MACH (8) = 1.102 ALPHA (3) = -4.062

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3340	.4090	.4310
PHI															
80.000	.4194	.3425	.1421												
70.000	.4777	.3756	.1953												
80.000	.4813	.3720	.2219												
90.000			.2263	-.0403	-.3253	-.3430	-.3107	-.2720	-.2521	-.2844	-.2446	-.1837	-.1075	-.0870	-.0798
100.000						-.3651	-.3425	-.3141	-.2871	-.2814	-.2342	-.2013	-.1149	-.1183	-.0760
110.000						-.4160	-.3859	-.3778	-.3496	-.3047	-.2427	-.1821	-.1183	-.1217	-.0779
120.000						-.3060								.0000	
130.000						-.4808								-.1489	
140.000						-.5817								-.1715	
150.000						-.5210								-.1914	
160.000						-.5106								-.21 :	
170.000						-.4983								-.2413	
180.000						-.4150	-.3574	-.3117	-.2708	-.2625	-.2550	-.2565	-.2476	-.2550	-.2474
X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0429	-.0306	-.0165	-.0224	-.0232	-.0171	.0403	.1088	.1316	.1197	.1162	.0835	.0371	.0105	-.0111
100.000	-.0802	-.0545	-.0357	-.0362	-.0340	-.0418	-.0008	.0782	.1129	.0941	.1092	.0803	.0505	.0332	-.0095
110.000	.0000	-.0490	-.0357	-.0475	-.0509	-.0802	-.0325	.0465	.0799	.0829	.0907	.0750	.0626	.0411	.0000
120.000						-.0983								.0422	
130.000						-.1403								.0530	
140.000						-.1590								.0643	
150.000						-.1543								.0786	
160.000						-.1782								.0926	
170.000						-.1876								.1037	
180.000	-.2480	-.2313	-.2336	-.2287	-.2175	-.1610	-.1573	-.1224	-.0641	.0114	.0701	.0850	.0952	.1241	.2045
X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8620	.9000	.9400						
PHI															
80.000							.1557								
70.000							.1192	.0250	.0000						
80.000							.1020	-.0225	.0435						
90.000	-.0398	-.0156	.1205	.1824	.0000	.0000	.0925	-.0303	.0378						
100.000	-.0268	.0860	.1800	.2411	.2150	.1544									
110.000	.0025	.1411	.2697	.3231	.2703	.1421									
120.000						.1856									
130.000						.3535									
140.000						.2567									
150.000						.3561									
160.000						.5068									
170.000						.5514									
180.000	.2464	.3239	.3875	.4456	.3101	.4254									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (6) = 1.101 ALPHA (4) = -1.931

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.3908	.3298	.1335												
90.000	.4322	.3654	.1973												
95.000	.4467	.3854	.2268												
98.000			.2591	-.0323	-.3080	-.3241	-.2991	-.2888	-.2484	-.2745	-.2526	-.2195	-.1460	-.1287	-.0917
100.000						-.3488	-.3422	-.3104	-.2841	-.2813	-.2501	-.2325	-.1631	-.1629	-.0919
110.000						-.3933	-.3796	-.3722	-.3505	-.3295	-.2679	-.2081	-.1604	-.1648	-.0976
120.000						-.3099								.0000	
130.000						-.4925								-.1743	
140.000						-.6150								-.1925	
150.000						-.5581								-.2083	
160.000						-.5413								-.2316	
170.000						-.5347								-.2578	
180.000						-.4555	-.4117	-.3645	-.3365	-.3068	-.2953	-.2852	-.2711	-.2721	-.2841

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5900	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0480	-.0493	-.0336	-.0391	-.0427	-.0474	.0168	.0949	.1194	.1039	.0932	.0583	.0081	-.0163	-.0423
100.000	.0845	-.0729	-.0565	-.0573	-.0529	-.0828	-.0242	.0592	.0979	.0726	.0677	.0600	.0285	.0077	-.0417
110.000	.0000	-.0869	-.0590	-.0700	-.0770	-.0886	-.0569	.0288	.0598	.0643	.0673	.0631	.0398	.0111	.0000
120.000						-.1414								.0036	
130.000						-.1769								.0234	
140.000						-.1914								.0343	
150.000						-.1765								.0481	
160.000						-.1638								.0609	
170.000						-.1623								.0683	
180.000	-.2771	-.2824	-.2598	-.2437	-.1959	-.1352	-.1100	-.0844	.0021	.0717	.0847	.0824	.0819	.0879	.1659

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1185		
90.000							.0778	-.0159	.0000
95.000							.0564	-.0742	-.0174
98.000	-.1008	-.1108	.0097	.1291	.0000	.0000	.0475	-.0924	-.0164
100.000	-.0693	-.0468	.0967	.2020	.1858	.1094			
110.000	-.0560	.0312	.2147	.2975	.2373	.1060			
120.000						.1691			
130.000						.3954			
140.000						.2039			
150.000						.2831			
160.000						.4580			
170.000						.4976			
180.000	.2192	.2971	.3272	.4065	.4562	.4919			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.102 ALPHA (5) = .223

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3573	.3046	.1311												
70.000	.4111	.3380	.1861												
80.000	.3958	.3352	.2161												
90.000			.2318	-.0403	-.3096	-.3177	-.2738	-.2305	-.1991	-.2290	-.2231	-.2237	-.1791	-.1706	-.1520
100.000						-.3408	-.3160	-.2823	-.2398	-.2396	-.2384	-.2454	-.1919	-.2132	-.1455
110.000						-.3852	-.3555	-.3517	-.3177	-.3101	-.2732	-.2230	-.1943	-.2151	-.1531
120.000						-.3251								.0000	
130.000						-.5148								-.2101	
140.000						-.6578								-.2185	
150.000						-.6088								-.2306	
160.000						-.5829								-.2517	
170.000						-.5806								-.2749	
180.000						-.5036	-.4519	-.4035	-.3555	-.3402	-.3258	-.3087	-.2878	-.2880	-.2795

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0961	-.0824	-.0632	-.0575	-.0514	-.0604	.0066	.0816	.0995	.0814	.0825	.0466	-.0092	-.0415	-.0738
100.000	-.1134	-.1048	-.0833	-.0776	-.0672	-.0820	-.0338	.0457	.0799	.0470	.0844	.0504	.0040	-.0146	-.0781
110.000	.0000	-.1035	-.0887	-.0989	-.0945	-.1063	-.0740	.0085	.0427	.0427	.0695	.0408	.0151	-.0157	.0000
120.000						-.1779								-.0301	
130.000						-.2062								.0021	
140.000						-.2043								.0193	
150.000						-.1656								.0361	
160.000						-.1439								.0547	
170.000						-.1168								.0695	
180.000	-.2658	-.2896	-.2440	-.1878	-.1363	-.0936	-.0736	-.0212	.0510	.0810	.0919	.0874	.0859	.0910	.1529

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0916		
70.000							.0471	-.0301	.0000
80.000							.0275	-.0923	-.0790
90.000	-.1314	-.1583	-.1176	.0619	.0000	.0000	.0192	-.1167	-.0648
100.000	-.0978	-.1172	-.0044	.1567	.1573	.0890			
110.000	-.1003	-.0722	.1460	.2645	.2211	.0977			
120.000						.1624			
130.000						.3058			
140.000						.1575			
150.000						.2437			
160.000						.4179			
170.000						.4543			
180.000	.2024	.2696	.3183	.3561	.4051	.3254			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (6) = 1.100 ALPHA (6) = 2.318

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3074	.2546	.1049												
70.000	.3512	.2935	.1644												
80.000	.3286	.2876	.2016												
90.000			.2265	-.0537	-.3066	-.2976	-.2249	-.1616	-.1465	-.1884	-.1990	-.2128	-.2067	-.2038	-.2078
100.000						-.3272	-.2797	-.2157	-.1824	-.1977	-.2115	-.2552	-.2283	-.2526	-.2027
110.000						-.3777	-.3277	-.3060	-.2595	-.2724	-.2693	-.2579	-.2382	-.2659	-.2131
120.000						-.3382								.0000	
130.000						-.5360								-.2604	
140.000						-.7009								-.2530	
150.000						-.6550								-.2545	
160.000						-.6212								-.2687	
170.000						-.6223								-.2843	
180.000						-.5528	-.4899	-.4341	-.3791	-.3602	-.3336	-.3211	-.3008	-.2970	-.2936

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1552	-.1283	-.0935	-.0808	-.0702	-.0744	-.0004	.0826	.1009	.0724	.0628	.0300	-.0201	-.0610	-.0972
100.000	-.1763	-.1514	-.1140	-.1021	-.0861	-.0990	-.0662	.0432	.0813	.0486	.0618	.0354	-.0072	-.0369	-.1099
110.000	.0000	-.1482	-.1231	-.1269	-.1241	-.1321	-.1026	-.0053	.0305	.0392	.0454	.0249	-.0038	-.0390	.0000
120.000						-.2173								-.0558	
130.000						-.2338								-.0242	
140.000						-.1964								.0071	
150.000						-.1359								.0373	
160.000						-.1215								.0596	
170.000						-.0856								.0777	
180.000	-.2979	-.2643	-.1884	-.1357	-.1051	-.0580	-.0292	.0371	.0779	.0890	.0933	.0905	.0905	.1035	.1449

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0675		
70.000							.0191	-.0337	.0000
80.000							-.0019	-.0998	-.1177
90.000	-.1625	-.1868	-.2026	-.0198	.0000	.0000	-.0001	-.1289	-.1187
100.000	-.1237	-.1535	-.0978	.1030	.1146	.0578			
110.000	-.1311	-.1254	.0929	.2354	.1902	.0758			
120.000						.1570			
130.000						.2864			
140.000						.1103			
150.000						.1979			
160.000						.3694			
170.000						.4045			
180.000	.1925	.2514	.2887	.3130	.3381	.2797			

AEDC 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (6) = 1.100 ALPHA (7) = 4.414

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2748	.2202	.0592												
70.000	.3067	.2606	.1279												
80.000	.2721	.2782	.1651												
90.000			.2034	-.0762	-.3296	-.3345	-.1688	-.1138	-.1125	-.1686	-.1877	-.2060	-.1992	-.2030	-.2212
100.000						-.3472	-.2563	-.1658	-.1493	-.1737	-.2000	-.2550	-.2392	-.2787	-.2235
110.000						-.3920	-.3480	-.2516	-.2281	-.2574	-.2739	-.2833	-.2681	-.2998	-.2504
120.000						-.3634								.0000	
130.000						-.5711								-.3093	
140.000						-.7519								-.2903	
150.000						-.7083								-.2737	
160.000						-.6627								-.2099	
170.000						-.6680								-.3045	
180.000						-.6051	-.5407	-.4903	-.4326	-.4067	-.3670	-.3328	-.3078	-.3119	-.2960

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1675	-.1572	-.1329	-.1243	-.1109	-.1048	-.0162	.0599	.0780	.0297	.0224	.0105	-.0388	-.0849	-.1293
100.000	-.2047	-.1911	-.1528	-.1448	-.1279	-.1363	-.0814	.0243	.0569	.0158	.0160	.0341	-.0285	-.0603	-.1407
110.000	.0000	-.1932	-.1716	-.1741	-.1727	-.1765	-.1399	-.0319	-.0048	-.0147	.0037	.0084	-.0300	-.0737	.0000
120.000						-.2727								-.1034	
130.000						-.2651								-.0554	
140.000						-.2001								-.0167	
150.000						-.1405								.0175	
160.000						-.1024								.0452	
170.000						-.0583								.0637	
180.000	-.2657	-.2105	-.1615	-.1183	-.0875	-.0284	.0009	.0697	.0854	.0895	.0950	.0877	.0803	.0850	.1223

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0399		
70.000							-.0156	-.0627	.0000
80.000							-.0301	-.1310	-.1597
90.000	-.1843	-.2161	-.2446	-.1101	.0000	.0000	-.0274	-.1607	-.1634
100.000	-.1482	-.1875	-.1851	.0515	.0673	.0167			
110.000	-.1578	-.1655	.0183	.1982	.1701	.0446			
120.000						.1474			
130.000						.2588			
140.000						.0565			
150.000						.1468			
160.000						.2875			
170.000						.2946			
180.000	.1656	.2229	.2581	.2808	.3013	.3076			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.097 ALPHA (8) = 6.523

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2365	.1886	.0487												
70.000	.2606	.2335	.1160												
80.000	.2088	.2497	.1620												
90.000			.2043	-.0686	-.3177	-.3016	-.1374	-.1042	-.1085	-.1691	-.1797	-.1963	-.1804	-.1779	-.2012
100.000						-.3277	-.2300	-.1580	-.1497	-.1746	-.1987	-.2610	-.2340	-.2709	-.2160
110.000						-.3692	-.3409	-.2376	-.2293	-.2625	-.2819	-.2944	-.2959	-.3287	-.2601
120.000						-.3543								.0000	
130.000						-.5703								-.3730	
140.000						-.7707								-.3317	
150.000						-.7349								-.3043	
160.000						-.6866								-.3054	
170.000						-.6892								-.3094	
180.000						-.6409	-.5926	-.5398	-.4805	-.4381	-.3849	-.3446	-.3181	-.3064	-.2533

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1669	-.1925	-.1804	-.1848	-.1677	-.1497	-.1056	.0641	.0743	.0321	.0187	-.0227	-.0880	-.1272	-.1691
100.000	-.2132	-.2316	-.2194	-.2130	-.1844	-.1815	-.1205	.0106	.0470	-.0039	.0010	-.0272	-.0772	-.0962	-.1789
110.000	.0000	-.2556	-.2511	-.2503	-.2316	-.2268	-.1620	-.0554	-.0203	-.0025	-.0283	-.0520	-.0846	-.1137	.0000
120.000						-.3261								-.1406	
130.000						-.2693								-.0723	
140.000						-.1863								-.0274	
150.000						-.1328								-.0008	
160.000						-.0840								.0208	
170.000						-.0574								.0357	
180.000	-.2168	-.1685	-.1298	-.0948	-.0605	-.0259	.0135	.0487	.0848	.0890	.0756	.0605	.0519	.0509	.0820

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0062		
70.000							-.0506	-.0948	.0000
80.000							-.0582	-.1607	-.1918
90.000	-.2243	-.2371	-.2664	-.1892	.0000	.0000	-.0515	-.1912	-.2028
100.000	-.1838	-.2110	-.2208	.0054	.0435	-.0417			
110.000	-.1894	-.1953	-.0341	.1721	.1397	.0111			
120.000						.1253			
130.000						.2170			
140.000						.0002			
150.000						.1141			
160.000						.2241			
170.000						.1705			
180.000	.1196	.1798	.2256	.2520	.2610	.3714			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RCB024)

MACH (8) = 1.097 ALPHA (9) = 8.725

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1946	.1458	.0112												
70.000	.1964	.1835	.0826												
80.000	.1299	.1957	.1382												
90.000			.1905	-.0771	-.3142	-.2100	-.1220	-.1035	-.1088	-.1596	-.1596	-.1709	-.1529	-.1595	-.2086
100.000						-.2721	-.1800	-.1628	-.1511	-.1717	-.1890	-.2313	-.2139	-.2626	-.2338
110.000						-.3549	-.2475	-.2373	-.2383	-.2637	-.2805	-.2850	-.2899	-.3348	-.3053
120.000						-.3685								.0000	
130.000						-.5914								-.4577	
140.000						-.8030								-.3938	
150.000						-.7754								-.3403	
160.000						-.7262								-.3267	
170.000						-.7290								-.3034	
180.000						-.6841	-.6277	-.5747	-.5181	-.4662	-.4071	-.3572	-.3019	-.2770	-.1948

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1904	-.2134	-.2114	-.2180	-.1985	-.1814	-.1174	-.0090	.0682	.0571	.0138	-.0439	-.1116	-.1536	-.2010
100.000	-.2475	-.2727	-.2602	-.2568	-.2299	-.2341	-.1862	-.0515	.0597	.0264	-.0028	-.0508	-.1103	-.1405	-.2196
110.000	.0000	-.3127	-.3106	-.3133	-.3042	-.3034	-.2424	-.1176	.0215	-.0051	-.0474	-.0961	-.1258	-.1549	.0000
120.000						-.3199								-.1670	
130.000						-.2129								-.0818	
140.000						-.1278								-.0551	
150.000						-.0877								-.0577	
160.000						-.0573								-.0262	
170.000						-.0312								-.0073	
180.000	-.1838	-.1238	-.0994	-.0806	-.0431	-.0073	.0125	.0573	.0740	.0727	.0633	.0488	.0270	.0211	.0345

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0100		
70.000							-.0439	-.0894	.0000
80.000							-.0469	-.1536	-.1969
90.000	-.2704	-.2782	-.2992	-.2663	.0000	.0000	-.0741	-.1822	-.2085
100.000	-.2224	-.2575	-.2433	-.0777	-.0261	-.0733			
110.000	-.2222	-.2324	-.0661	.0892	.0887	-.0081			
120.000						.1211			
130.000						.1889			
140.000						-.0277			
150.000						.1167			
160.000						.2522			
170.000						.0156			
180.000	.0497	.1198	.1772	.2208	.2676	.4652			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.150 ALPHA (1) = -8.385

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3175	.4318	.1919												
70.000	.3883	.4594	.2674												
80.000	.4007	.4599	.2897												
90.000			.2831	.0325	-.2468	-.2583	-.2426	-.1920	-.1662	-.1781	-.1011	-.0277	.0457	.0783	.0849
100.000						-.2719	-.2694	-.2426	-.2023	-.1586	-.0900	-.0424	.0345	.0358	.0865
110.000						-.3445	-.3018	-.2958	-.2414	-.1658	-.0887	-.0056	.0327	.0285	.0708
120.000						-.1781								.0000	
130.000						-.3270								.0083	
140.000						-.3732								-.0144	
150.000						-.3278								-.0376	
160.000						-.3194								-.0577	
170.000						-.2851								-.0856	
180.000						-.2210	-.1734	-.1248	-.0959	-.0999	-.1021	-.0957	-.0918	-.0975	-.0957

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.1004	.0840	.0848	.0838	.0820	.0846	.1505	.2042	.2309	.2261	.2224	.1913	.1570	.1471	.1738
100.000	.0812	.0630	.0650	.0665	.0723	.0630	.1092	.1745	.2179	.2040	.2154	.1904	.1661	.1657	.1856
110.000	.0000	.0700	.0712	.0605	.0558	.0516	.0924	.1441	.1836	.1976	.1997	.1844	.1739	.1754	.0000
120.000						.0310								.1795	
130.000						.0049								.1981	
140.000						-.0122								.2051	
150.000						-.0111								.2150	
160.000						-.0396								.2191	
170.000						-.0636								.2179	
180.000	-.1088	-.1155	-.0924	-.0958	-.1024	-.1001	-.0976	-.0607	-.0383	-.0040	.0513	.0996	.1840	.2253	.3149

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2485		
70.000							.2184	.1705	.0000
80.000							.2043	.1471	.1673
90.000	.1903	.2551	.3092	.3263	.0900	.0000	.1913	.1463	.1640
100.000	.2335	.3017	.3510	.3760	.3373	.2620			
110.000	.2657	.3459	.4141	.4383	.3720	.2351			
120.000						.2553			
130.000						.4428			
140.000						.3899			
150.000						.4609			
160.000						.6229			
170.000						.6685			
180.000	.3469	.4322	.4998	.5613	.6279	.5322			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.131 ALPHA (2) = -6.150

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4985	.4158	.1871												
70.000	.5660	.4529	.2649												
80.000	.5738	.4471	.2891												
90.000			.2858	.0319	-.2457	-.2571	-.2296	-.1857	-.1626	-.1804	-.1148	-.0505	.0058	.0472	.0546
100.000						-.2744	-.2593	-.2337	-.2016	-.1692	-.1014	-.0579	.0064	.0113	.0581
110.000						-.3360	-.2980	-.2879	-.2556	-.1828	-.1078	-.0346	.0052	.0025	.0559
120.000						-.1975								.0000	
130.000						-.3593								-.0182	
140.000						-.4298								-.0422	
150.000						-.3731								-.0611	
160.000						-.3661								-.0653	
170.000						-.3471								-.1154	
180.000						-.2657	-.2115	-.1711	-.1336	-.1336	-.1276	-.1304	-.1242	-.1263	-.1216

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	.0858	.0732	.0815	.0740	.0736	.1085	.1439	.1986	.2149	.2127	.2129	.1712	.1290	.1088	.0878
100.000	.0695	.0544	.0648	.0553	.0608	.0716	.1036	.1738	.2065	.1871	.2022	.1689	.1404	.1264	.0938
110.000	.0000	.0604	.0604	.0522	.0412	.0581	.0749	.1497	.1705	.1813	.1848	.1656	.1518	.1319	.0000
120.000						.0177								.1276	
130.000						-.0282								.1387	
140.000						-.0504								.1464	
150.000						-.0527								.1544	
160.000						-.0769								.1670	
170.000						-.0963								.1683	
180.000	-.1241	-.1296	-.1145	-.1142	-.1165	-.1067	-.0765	-.0552	-.0255	.0507	.1144	.1379	.1549	.1910	.2813

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.2315		
70.000							.2003	.1260	.0000
80.000							.1840	.0900	.1364
90.000	.0837	.1477	.2424	.2821	.0000	.0000	.1730	.0945	.1325
100.000	.1098	.2079	.2951	.3415	.3071	.2412			
110.000	.1946	.2684	.3701	.4110	.3499	.2239			
120.000						.2500			
130.000						.4256			
140.000						.3558			
150.000						.4265			
160.000						.5913			
170.000						.6337			
180.000	.3222	.4047	.4723	.5316	.5972	.5085			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.151 ALPHA (3) = -4.084

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.4834	.4047	.1945												
70.000	.5440	.4411	.2646												
80.000	.5483	.4340	.2913												
90.000			.2966	.0418	-.2329	-.2391	-.2156	-.1779	-.1559	-.1812	-.1346	-.0862	-.0165	.0128	.0498
100.000						-.2671	-.2453	-.2241	-.1911	-.1783	-.1212	-.0942	-.0260	-.0186	.0463
110.000						-.3199	-.2892	-.2809	-.2554	-.1989	-.1313	-.0653	-.0237	-.0258	.0364
120.000						-.2096								.0000	
130.000						-.3774								-.0411	
140.000						-.4699								-.0637	
150.000						-.4102								-.0830	
160.000						-.4019								-.1063	
170.000						-.3881								-.1322	
180.000						-.3098	-.2568	-.2090	-.1690	-.1664	-.1598	-.1574	-.1463	-.1451	-.1408

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0760	.0792	.0825	.0746	.0713	.0370	.1505	.1953	.2155	.2040	.1955	.1556	.1092	.0848	.0486
100.000	.0567	.0550	.0639	.0581	.0577	.0507	.1197	.1701	.2011	.1755	.1899	.1561	.1240	.1009	.0490
110.000	.0000	.0604	.0649	.0515	.0375	.0333	.0848	.1455	.1701	.1722	.1707	.1521	.1315	.1013	.0000
120.000						-.0108								.0933	
130.000						-.0519								.1017	
140.000						-.0690								.1083	
150.000						-.0631								.1145	
160.000						-.0740								.1212	
170.000						-.0619								.1174	
180.000	-.1491	-.1549	-.1345	-.1259	-.1062	-.0410	-.0172	.0030	.0528	.0914	.1234	.1269	.1269	.1348	.2332

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							.2069		
70.000							.1701	.0764	.0000
80.000							.1542	.0275	.0915
90.000	-.0034	.0213	.1537	.2275	.0000	.0000	.1426	.0137	.0913
100.000	.0260	.0991	.2224	.2913	.2658	.2000			
110.000	.0451	.1707	.3120	.3760	.3136	.1884			
120.000						.2328			
130.000						.4024			
140.000						.3110			
150.000						.3847			
160.000						.5525			
170.000						.5932			
180.000	.2866	.3738	.4424	.4993	.5592	.4806			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.151 ALPHA (4) = -1.987

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.4614	.3984	.2063												
70.000	.5142	.4246	.2628												
80.000	.5128	.4494	.2924												
90.000			.3008	.0468	-.2278	-.2309	-.2013	-.1603	-.1315	-.1519	-.1280	-.0901	-.0315	-.0110	.0283
100.000						-.2526	-.2369	-.2075	-.1737	-.1597	-.1195	-.1016	-.0420	-.0475	.0247
110.000						-.3049	-.2594	-.2719	-.2433	-.2052	-.1343	-.0768	-.0323	-.0442	.0130
120.000						-.2208								.0000	
130.000						-.3975								-.0522	
140.000						-.5100								-.0766	
150.000						-.4573								-.0961	
160.000						-.4432								-.1201	
170.000						-.4313								-.1473	
180.000						-.3515	-.2979	-.2487	-.2064	-.1984	-.1852	-.1763	-.1632	-.1634	-.1576

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0375	.0657	.0608	.0577	.0463	.0595	.1327	.1839	.2014	.1833	.1824	.1365	.0629	.0486	.0189
100.000	.0408	.0377	.0447	.0375	.0377	.0410	.1013	.1562	.1859	.1634	.1786	.1382	.0953	.0711	.0219
110.000	.0000	.0434	.0445	.0241	.0171	.0017	.0617	.1236	.1606	.1610	.1572	.1239	.1060	.0701	.0000
120.000						-.0447								.0544	
130.000						-.0748								.0713	
140.000						-.0713								.0759	
150.000						-.0329								.0847	
160.000						-.0237								.0929	
170.000						-.0076								.0932	
180.000	-.1616	-.1708	-.1314	-.0849	-.0340	-.0063	.0083	.0447	.0718	.1042	.1211	.1151	.1089	.1091	.1836

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1715		
70.000							.1307	.0419	.0000
80.000							.1096	-.0132	.0318
90.000	-.0377	-.0824	.0233	.1626	.0000	.0000	.0984	-.0322	.0375
100.000	-.0113	-.0068	.1250	.2380	.2252	.1609			
110.000	-.0080	.0500	.2461	.3335	.2811	.1607			
120.000						.2220			
130.000						.3770			
140.000						.2605			
150.000						.3401			
160.000						.5096			
170.000						.5397			
180.000	.2474	.3402	.4052	.4563	.5149	.4412			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.150 ALPHA (5) = .189

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4130	.3409	.1910												
70.000	.4671	.3889	.2497												
80.000	.4452	.3913	.2854												
90.000			.3059	.0359	-.2245	-.3330	-.1670	-.1068	-.0819	-.1132	-.1076	-.0915	-.0472	-.0357	-.0147
100.000						-.2499	-.2123	-.1596	-.1171	-.1307	-.1146	-.1060	-.0556	-.0745	-.0032
110.000						-.2683	-.2484	-.2410	-.1956	-.1890	-.1352	-.0944	-.0625	-.0775	-.0145
120.000						-.2338								.0000	
130.000						-.4108								-.0745	
140.000						-.5451								-.0851	
150.000						-.4993								-.0995	
160.000						-.4739								-.1215	
170.000						-.4715								-.1471	
180.000						-.3914	-.3387	-.2867	-.2360	-.2239	-.2049	-.1820	-.1615	-.1600	-.1644

X/L	.4500	.4690	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0474	.0480	.0542	.0474	.0462	.0614	.1603	.1917	.2051	.1888	.1660	.1146	.0491	.0216	-.0092
100.000	.0289	.0202	.0323	.0237	.0305	.0517	.1148	.1655	.2072	.1551	.1638	.1129	.0687	.0366	-.0155
110.000	.0000	.0214	.0208	.0052	.0033	.0181	.0654	.1330	.1694	.1595	.1429	.1032	.0722	.0443	.0000
120.000						-.0576								.0216	
130.000						-.0405								.0404	
140.000						-.0379								.0528	
150.000						.0112								.0640	
160.000						.0371								.0772	
170.000						.0262								.0417	
180.000	-.1758	-.1405	-.0654	-.0235	.0132	.0427	.0528	.0935	.1138	.1198	.1154	.1076	.0981	.0939	.1507

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8625	.9000	.9400
PHI									
60.000							.1326		
70.000							.0858	.0216	.0000
80.000							.0707	-.0370	-.0289
90.000	-.0878	-.0991	-.1015	.0775	.0000	.0000	.0658	-.0651	-.0232
100.000	-.0314	-.0630	.0945	.1894	.1927	.1314			
110.000	-.0359	-.0389	.1701	.3050	.2459	.1405			
120.000						.2001			
130.000						.3498			
140.000						.2077			
150.000						.2912			
160.000						.4663			
170.000						.4918			
180.000	.2146	.3101	.3742	.4167	.4610	.3971			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (P) = 1.150 ALPHA (6) = 2.390

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3871	.3173	.1747												
70.000	.4086	.3879	.2284												
80.000	.4090	.3712	.2670												
90.000			.2753	.0304	-.2193	-.2249	-.0787	-.0269	-.0230	-.0807	-.0902	-.1024	-.0770	-.0559	-.0368
100.000						-.2294	-.1512	-.0795	-.0597	-.0886	-.0997	-.1358	-.0932	-.1140	-.0347
110.000						-.2942	-.2469	-.1772	-.1323	-.1607	-.1492	-.1335	-.1076	-.1283	-.0475
120.000						-.2455								.0000	
130.000						-.4394								-.1208	
140.000						-.5893								-.1220	
150.000						-.5419								-.1249	
160.000						-.5097								-.1398	
170.000						-.5105								-.1550	
180.000						-.4350	-.3840	-.3316	-.2683	-.2461	-.2170	-.1828	-.1727	-.1635	-.1674

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0139	.0263	.0442	.0399	.0331	.0888	.1253	.1722	.2020	.1623	.1494	.1031	.0370	-.0079	-.0476
100.000	-.0002	-.0021	.0207	.0020	.0049	.0370	.0934	.1486	.1976	.1412	.1477	.0994	.0463	.0149	-.0539
110.000	.0000	-.0008	.0108	-.0191	-.0162	-.0064	.0352	.1317	.1631	.1251	.1236	.0827	.0475	.0040	.0000
120.000						-.0827								-.0273	
130.000						-.0804								.0109	
140.000						-.0253								.0312	
150.000						.0054								.0482	
160.000						.0153								.0626	
170.000						.0232								.0728	
180.000	-.1395	-.0774	-.0111	.0129	.0479	.0333	.0748	.1147	.1209	.1197	.1139	.1106	.0924	.0932	.1339

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0918		
70.000							.0484	.0025	.0000
80.000							.0526	-.0624	-.0775
90.000	-.1079	-.1354	-.1582	-.0242	.0000	.0000	.0336	-.0949	-.0810
100.000	-.0731	-.1014	-.1069	.1288	.1457	.0845			
110.000	-.0798	-.0919	.0661	.2622	.2260	.1126			
120.000						.2028			
130.000						.3258			
140.000						.1501			
150.000						.2427			
160.000						.4258			
170.000						.4469			
180.000	.1901	.2869	.3363	.3680	.4056	.3360			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.146 ALPHA (7) = 4.498

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1280	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3320	.2711	.0961												
70.000	.3628	.3174	.1771												
80.000	.3424	.3440	.2378												
90.000			.2738	-.0057	-.2413	-.1214	-.0331	-.0239	-.0274	-.0822	-.0983	-.1043	-.0859	-.0595	-.0893
100.000						-.2234	-.1108	-.0843	-.0886	-.0858	-.1115	-.1559	-.1031	-.1271	-.0816
110.000						-.2881	-.1617	-.1580	-.1493	-.1710	-.1792	-.1515	-.1279	-.1515	-.0951
120.000						-.3621								.0000	
130.000						-.4611								-.1663	
140.000						-.6399								-.1568	
150.000						-.9929								-.1573	
160.000						-.5539								-.1694	
170.000						-.5527								-.1815	
180.000						-.4846	-.4284	-.3657	-.3041	-.2710	-.2273	-.1915	-.1765	-.1784	-.1308

X/L	.4900	.4880	.4880	.5.90	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0841	-.0880	-.0886	-.0898	-.0138	.0043	.1349	.1704	.1729	.1336	.1229	.0596	-.0103	-.0508	-.0788
100.000	-.0800	-.0_81	-.0382	-.0483	-.0327	-.0327	.0840	.1336	.1603	.0985	.0995	.0546	-.0017	-.0270	-.0994
110.000	.0000	-.0711	-.0847	-.0785	-.0736	-.0855	.0300	.0917	.1175	.0844	.0730	.0246	-.0098	-.0487	.0000
120.000						-.1804								-.0820	
130.000						-.0814								-.0406	
140.000						-.0194								-.0100	
150.000						.0182								.0180	
160.000						.0369								.0401	
170.000						.0476								.0994	
180.000	-.0888	-.0490	-.0226	.0029	.0144	.0371	.0636	.0897	.1076	.1009	.0991	.0898	.0794	.0852	.1170

X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8820	.9000	.9400
PHI									
80.000							.0501		
90.000							.0089	-.0273	.0000
40.000							.0046	-.0886	-.1190
90.000	-.1416	-.1703	-.2016	-.1447	.0000	.0000	.0077	-.1253	-.1158
100.000	-.1079	-.1467	-.1691	.0992	.1009	.0309			
110.200	-.1154	-.1330	-.0295	.2181	.1986	.0788			
120.000						.1900			
130.000						.2930			
140.000						.0691			
150.000						.1790			
160.000						.3206			
170.000						.3406			
180.000	.1897	.2923	.2983	.3223	.3406	.3333			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (P) = 1.150 ALPHA (0) = 0.930

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.2956	.2490	.0783												
70.000	.3208	.2834	.1435												
80.000	.2970	.3018	.2131												
90.000			.2549	-.0180	-.2495	-.2507	-.0188	.0127	.0113	-.0462	-.0549	-.0537	-.0398	-.0390	-.0699
100.000						-.2569	-.2159	-.0392	-.0364	-.0551	-.0724	-.1180	-.0896	-.1198	-.0804
110.000						-.3041	-.2367	-.1143	-.1202	-.1460	-.1565	-.1505	-.1411	-.1716	-.1214
120.000						-.2748								.0000	
130.000						-.4785								-.2038	
140.000						-.6673								-.1809	
150.000						-.6292								-.1641	
160.000						-.5824								-.1501	
170.000						-.5061								-.1382	
180.000						-.5288	-.4677	-.4077	-.3492	-.3041	-.2396	-.1938	-.1485	-.1280	-.0859

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6890	.7100
PHI															
90.000	-.0332	-.0499	-.0499	-.0470	-.0047	.0197	.1482	.1826	.1965	.1300	.1071	.0480	-.0227	-.0717	-.1164
100.000	-.0985	-.0838	-.0896	-.0840	-.0455	-.0178	.1170	.1523	.1785	.0974	.0875	.0362	-.0279	-.0534	-.1318
110.000	.0000	-.1057	-.0864	-.1055	-.0809	-.0548	.0422	.1228	.1292	.0777	.0455	-.0062	-.0385	-.0757	.0000
120.000						-.1362								-.1275	
130.000						-.0800								-.0878	
140.000						.0105								-.0289	
150.000						.0346								.0001	
160.000						.0810								.0232	
170.000						.0926								.0373	
180.000	-.0905	-.0076	.0023	.0259	.0568	.1054	.1186	.1263	.1221	.1077	.1011	.0835	.0645	.0559	.0831

X/L	.7890	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0092		
70.000							-.0154	-.0595	.0000
80.000							-.0142	-.1240	-.1483
90.000	-.1729	-.1993	-.2230	-.2398	.0000	.0000	-.0365	-.1566	-.1588
100.000	-.1370	-.1733	-.2026	-.0088	.0676	-.0098			
110.000	-.1445	-.1682	-.1298	.1813	.1700	.0878			
120.000						.1871			
130.000						.2865			
140.000						.0460			
150.000						.1509			
160.000						.2787			
170.000						.2618			
180.000	.1243	.2125	.2708	.3001	.3184	.3757			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (7) = 1.191 ALPHA (9) = 8.630

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.2252	.1700	.0497												
70.000	.2190	.2104	.1215												
80.000	.1399	.2304	.1019												
90.000			.2335	-.0175	-.2094	-.1643	-.0020	.0642	.0345	-.0102	-.0345	-.0537	-.0224	-.0083	-.0743
100.000						-.2008	-.0790	-.0434	-.0119	-.0347	-.0502	-.1165	-.0819	-.1249	-.0981
110.000						-.2648	-.1536	-.1214	-.1017	-.1295	-.1505	-.1495	-.1512	-.1930	-.1598
120.000						-.2879								-.2300	
130.000						-.4791								-.2650	
140.000						-.6075								-.2190	
150.000						-.6536								-.1868	
160.000						-.6084								-.1454	
170.000						-.6123								-.1216	
180.000						-.5547	-.5056	-.4337	-.3554	-.3085	-.2351	-.1985	-.1155	-.0866	-.0218

X/L	.4900	.4900	.4900	.5000	.5240	.5490	.5810	.5800	.5980	.6170	.6360	.6540	.6750	.6800	.7150
PHI															
90.000	-.0425	-.0997	-.0901	-.0714	-.0810	-.0079	.1651	.2237	.2072	.1451	.1131	.0471	-.0350	-.0917	-.1254
100.000	-.0886	-.1046	-.1077	-.1108	-.0827	-.0567	.1234	.2000	.1867	.0963	.0896	.0209	-.0435	-.0811	-.1497
110.000	.0000	-.1321	-.1400	-.1619	-.1272	-.1003	.1022	.1556	.1224	.0892	.0351	-.0204	-.0679	-.1159	.0000
120.000						-.1473								-.1609	
130.000						.0821								-.1008	
140.000						.0815								-.0437	
150.000						.1187								-.0179	
160.000						.1274								-.0085	
170.000						.1363								.0083	
180.000	.0147	.0400	.0376	.0291	.0700	.1490	.1517	.1443	.1300	.1195	.1074	.0752	.0487	.0267	.0517

X/L	.7600	.7670	.7870	.7950	.8030	.8290	.8820	.9000	.9400
PHI									
60.000							-.0140		
70.000							-.0239	-.0000	.0000
80.000							-.0887	-.1510	-.1829
90.000	-.1871	-.2092	-.2414	-.2936	.0000	.0000	-.0890	-.1601	-.1801
100.000	-.1907	-.1660	-.2000	-.0746	.0344	-.0215			
110.000	-.1699	-.1956	-.1643	.1424	.1455	.0657			
120.000						.1644			
130.000						.2362			
140.000						.0044			
150.000						.1378			
160.000						.2308			
170.000						.1141			
180.000	.0896	.1534	.2123	.2906	.2972	.4636			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.251 ALPHA (1) = -8.398

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0370	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5187	.4553	.2435												
70.000	.5859	.4926	.3142												
80.000	.5970	.4844	.3408												
90.000			.3459	.0842	-.1688	-.1961	-.2053	-.1742	-.1491	-.1856	-.1560	-.1195	-.0724	-.0630	-.0529
100.000						-.2108	-.2162	-.2150	-.1888	-.1763	-.1369	-.1262	-.0718	-.0856	-.0484
110.000						-.2648	-.2468	-.2501	-.2446	-.1921	-.1375	-.0919	-.0598	-.0757	-.0417
120.000						-.1294								.0000	
130.000						-.2757								-.0496	
140.000						-.3414								-.0630	
150.000						-.2895								-.0698	
160.000						-.2785								-.0852	
170.000						-.2701								-.1037	
180.000						-.1999	-.1667	-.1428	-.1174	-.1112	-.1053	-.1106	-.1100	-.1124	-.1126

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6750	.6880	.7100
PHI															
90.000	-.0021	.0077	.0308	.0186	.0141	-.0035	.0121	.0335	.0896	.1342	.1256	.1046	.0922	.0777	.0534
100.000	-.0236	-.0163	.0070	.0083	.0068	-.0147	-.0095	.0051	.0625	.1037	.1197	.0981	.0957	.0880	.0519
110.000	.0000	-.0159	.0048	.0070	-.0031	-.0163	-.0077	.0001	.0303	.0870	.1064	.0851	.0938	.0855	.0000
120.000						-.0198								.0441	
130.000						-.0430								.0192	
140.000						-.0606								-.0056	
150.000						-.0538								-.0270	
160.000						-.0784								-.0428	
170.000						-.1025								-.0623	
180.000	-.1270	-.1308	-.1272	-.1290	-.1337	-.1338	-.1460	-.1524	-.1526	-.1528	-.1347	-.1199	-.0839	-.0673	-.0537

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2142		
70.000							.1826	.1156	.0000
80.000							.1636	.0654	.1231
90.000	.0144	.0008	.0133	.1166	.0000	.0000	.1412	.0426	.1391
100.000	.0325	.0284	.0746	.2100	.2166	.1455			
110.000	.0344	.0387	.1783	.3024	.2473	.1591			
120.000						.2490			
130.000						.4454			
140.000						.3442			
150.000						.4069			
160.000						.6065			
170.000						.6682			
180.000	-.0873	.1289	.3714	.4619	.5115	.4541			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.251 ALPHA (2) = -6.214

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4796	.4295	.2414												
70.000	.5391	.4618	.3056												
80.000	.5478	.4632	.3344												
90.000			.3433	.0710	-.1710	-.1992	-.2080	-.1755	-.1546	-.1903	-.1739	-.1469	-.1059	-.0943	-.0930
100.000						-.2116	-.2175	-.2167	-.1889	-.1869	-.1642	-.1556	-.1061	-.1212	-.0832
110.000						-.2604	-.2429	-.2546	-.2520	-.2173	-.1629	-.1238	-.0951	-.1097	-.0751
120.000						-.1459								.0000	
130.000						-.3058								-.0826	
140.000						-.3672								-.0979	
150.000						-.3397								-.1059	
160.000						-.3253								-.1226	
170.000						-.3200								-.1393	
180.000						-.2519	-.2137	-.1885	-.1619	-.1504	-.1421	-.1493	-.1473	-.1501	-.1452

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0431	-.0239	.0032	-.0021	-.0056	-.0215	-.0138	-.0018	.0491	.0898	.0927	.0733	.0619	.0473	.0118
100.000	-.0814	-.0468	-.0182	-.0115	-.0107	-.0347	-.0345	-.0249	.0246	.0611	.0884	.0627	.0639	.0544	.0121
110.000	.0000	-.0445	-.0209	-.0170	-.0249	-.0370	-.0349	-.0279	-.0066	.0423	.0676	.0554	.0593	.0494	.0000
120.000						-.0472								.0020	
130.000						-.0771								-.0211	
140.000						-.0933								-.0421	
150.000						-.0917								-.0601	
160.000						-.1139								-.0727	
170.000						-.1374								-.0946	
180.000	-.1550	-.1577	-.1550	-.1571	-.1603	-.1676	-.1758	-.1826	-.1820	-.1786	-.1552	-.1380	-.1168	-.1010	-.0841

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1543		
70.000							.1295	.0800	.0000
80.000							.1071	.0229	.0467
90.000	-.0287	-.0410	-.0563	.0174	.0000	.0000	.0872	.0014	.0810
100.000	-.0090	-.0230	-.0141	.1319	.1586	.0930			
110.000	-.0113	-.0139	.0706	.2468	.2167	.1221			
120.000						.2315			
130.000						.4045			
140.000						.2693			
150.000						.3426			
160.000						.5451			
170.000						.6120			
180.000	-.1171	.1146	.3199	.4009	.4477	.3859			

AMES 64-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.249 ALPHA (3) = -4.110

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4328	.3981	.2250												
70.000	.4980	.4328	.2878												
80.000	.4907	.4463	.3220												
90.000			.3405	.0614	-.1732	-.2028	-.2042	-.1758	-.1544	-.1898	-.1795	-.1704	-.1303	-.1201	-.1241
100.000						-.2131	-.2214	-.2206	-.1856	-.1884	-.1825	-.1795	-.1331	-.1494	-.1119
110.000						-.2559	-.2433	-.2577	-.2523	-.2334	-.1892	-.1504	-.1264	-.1443	-.1030
120.000						-.1675								.0000	
130.000						-.3281								-.1244	
140.000						-.4296								-.1345	
150.000						-.3836								-.1415	
160.000						-.3637								-.1539	
170.000						-.3597								-.1741	
180.000						-.3017	-.2606	-.2365	-.2054	-.1947	-.1862	-.1844	-.1796	-.1820	-.1763

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0789	-.0580	-.0241	-.0333	-.0355	-.0476	-.0397	-.0323	.0181	.0610	.0634	.0296	.0420	.0228	-.0124
100.000	-.0934	-.0838	-.0463	-.0423	-.0404	-.0588	-.0623	-.0541	-.0093	.0238	.0555	.0244	.0401	.0353	-.0158
110.000	.0000	-.0781	-.0488	-.0486	-.0525	-.0649	-.0633	-.0581	-.0409	.0037	.0369	.0169	.0234	.0300	.0000
120.000						-.0324								-.0339	
130.000						-.1105								-.0565	
140.000						-.1259								-.0785	
150.000						-.1231								-.0879	
160.000						-.1468								-.0989	
170.000						-.1668								-.1175	
180.000	-.1835	-.1871	-.1855	-.1839	-.1879	-.1942	-.2002	-.2064	-.2016	-.1924	-.1619	-.1525	-.1349	-.1237	-.1009

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1060		
70.000							.0842	.0389	.0000
80.000							.0722	-.0177	-.0128
90.000	-.0560	-.0696	-.0890	-.0617	.0000	.0000	.0547	-.0378	-.0134
100.000	-.0340	-.0528	-.0653	.0772	.1318	.0701			
110.000	-.0401	-.0469	-.0139	.2208	.2110	.1111			
120.000						.2340			
130.000						.3802			
140.000						.2106			
150.000						.2959			
160.000						.4978			
170.000						.5613			
180.000	-.1109	.1516	.2955	.3612	.4001	.3630			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.250 ALPHA (4) = -2.024

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	4030	.4310
PHI															
60.000	.3802	.3494	.2027												
70.000	.4385	.3850	.2644												
80.000	.4288	.3871	.3035												
90.000			.3209	.0495	-.1803	-.2046	-.2089	-.1704	-.1428	-.1749	-.1673	-.1728	-.1095	-.1315	-.1356
100.000						-.2208	-.2308	-.2166	-.1779	-.1751	-.1795	-.1917	-.1476	-.1655	-.1307
110.000						-.2597	-.2505	-.2598	-.2452	-.2334	-.2046	-.1653	-.1437	-.1670	-.1252
120.000						-.1878								.0000	
130.000						-.3568								-.1554	
140.000						-.4696								-.1623	
150.000						-.4245								-.1698	
160.000						-.3973								-.1837	
170.000						-.3979								-.2045	
180.000						-.3434	-.3009	-.2766	-.2480	-.2336	-.2229	-.2210	-.2144	-.2155	-.2040

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0926	-.0832	-.0572	-.0827	-.0833	-.0761	-.0623	-.0501	.0011	.0444	.0474	.0015	.0152	.0019	-.0346
100.000	-.1083	-.1055	-.0794	-.0735	-.0714	-.0887	-.0840	-.0788	-.0273	.0074	.0383	-.0013	-.0019	.0154	-.0401
110.000	.0000	-.0959	-.0777	-.0786	-.0853	-.0967	-.0902	-.0840	-.0670	-.0145	.0128	-.0107	-.0119	.0029	.0000
120.000						-.1197								-.0762	
130.000						-.1494								-.0948	
140.000						-.1630								-.1008	
150.000						-.1558								-.1018	
160.000						-.1740								-.1046	
170.000						-.1902								-.1216	
180.000	-.2136	-.2189	-.2118	-.2071	-.2079	-.2140	-.2188	-.2194	-.2060	-.1852	-.1602	-.1464	-.1262	-.1136	-.0799

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0609		
70.000							.0468	-.0044	.0000
80.000							.0355	-.0577	-.0839
90.000	-.0840	-.0977	-.1155	-.1265	.0000	.0000	.0178	-.0719	-.0749
100.000	-.0973	-.0837	-.1015	.0283	.1021	.0426			
110.000	-.0723	-.0770	-.0624	.1883	.1891	.0974			
120.000						.2316			
130.000						.3568			
140.000						.1591			
150.000						.2408			
160.000						.4401			
170.000						.5085			
180.000	-.0832	.1661	.2725	.3327	.3731	.4036			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.250 ALPHA (5) = .109

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3522	.3192	.1562												
70.000	.3957	.3555	.2248												
80.000	.3745	.3512	.2747												
90.000			.3095	.0270	-.2255	-.2419	-.2570	-.1938	-.1229	-.1488	-.1422	-.1505	-.1361	-.1321	-.1339
100.000						-.2519	-.2623	-.2728	-.1744	-.1531	-.1557	-.1837	-.1520	-.1771	-.1337
110.000						-.2693	-.2829	-.3006	-.2890	-.2214	-.2001	-.1767	-.1537	-.1791	-.1433
120.000						-.2195								.0000	
130.000						-.3694								-.1803	
140.000						-.5230								-.1858	
150.000						-.4760								-.1921	
160.000						-.4349								-.2074	
170.000						-.4365								-.2304	
180.000						-.3885	-.3437	-.3200	-.2900	-.2730	-.2611	-.2606	-.2493	-.2473	-.2274

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1040	-.1011	-.0753	-.0812	-.0836	-.0916	-.0754	-.0454	-.0033	.0302	.0334	-.0257	-.0357	-.0257	-.0617
100.000	-.1190	-.1229	-.1019	-.0934	-.0893	-.1042	-.0992	-.0776	-.0290	-.0123	.0207	-.0329	-.0531	-.0159	-.0721
110.000	.0000	-.1131	-.1005	-.1038	-.1085	-.1215	-.1132	-.0938	-.0662	-.0302	-.0111	-.0483	-.0679	-.0413	.0000
120.000						-.1587								-.1303	
130.000						-.1824								-.1325	
140.000						-.1906								-.1197	
150.000						-.1890								-.1033	
160.000						-.2044								-.0973	
170.000						-.2186								-.1021	
180.000	-.2347	-.2414	-.2359	-.2282	-.2308	-.2350	-.2278	-.2076	-.1920	-.1668	-.1403	-.1197	-.1003	-.0895	-.0518

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0199		
70.000							.0118	-.0364	.0000
80.000							.0005	-.0853	-.1026
90.000	-.1255	-.1378	-.1490	-.1981	.0000	.0000	-.0171	-.0952	-.1212
100.000	-.0941	-.1291	-.1428	-.0535	.0701	.0165			
110.000	-.1071	-.1212	-.1253	.1563	.1701	.0916			
120.000						.2281			
130.000						.3315			
140.000						.1139			
150.000						.1935			
160.000						.3930			
170.000						.4055			
180.000	.0009	.1855	.2470	.2954	.3347	.3609			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.251 ALPHA (8) = 2.232

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3334	.2877	.1310												
70.000	.3581	.3215	.2014												
80.000	.3124	.3429	.2496												
90.000			.2978	.0230	-.2366	-.2761	-.2696	-.2865	-.2290	-.1483	-.1238	-.1248	-.1046	-.1014	-.1224
100.000						-.2773	-.2880	-.3009	-.2843	-.2123	-.1530	-.1653	-.1358	-.1586	-.1199
110.000						-.2955	-.3030	-.3242	-.3332	-.3200	-.2312	-.1798	-.1594	-.1802	-.1378
120.000						-.2357								.0000	
130.000						-.4094								-.2138	
140.000						-.5593								-.2205	
150.000						-.5204								-.2283	
160.000						-.4687								-.2529	
170.000						-.4708								-.2794	
180.000						-.4282	-.3808	-.3551	-.3251	-.3080	-.2959	-.3008	-.2937	-.2937	-.2658

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0908	-.1030	-.0859	-.0936	-.0961	-.0983	-.0734	-.0591	-.0253	.0080	.0161	-.0512	-.0660	-.0566	-.0901
100.000	-.1154	-.1270	-.1142	-.1081	-.1030	-.1175	-.1024	-.0892	-.0439	-.0455	-.0047	-.0590	-.0804	-.0534	-.1079
110.000	.0000	-.1234	-.1152	-.1216	-.1270	-.1407	-.1244	-.1090	-.0896	-.0690	-.0396	-.0792	-.1034	-.0830	.0000
120.000						-.1975								-.1859	
130.000						-.2152								-.1601	
140.000						-.2224								-.1276	
150.000						-.2128								-.1016	
160.000						-.2258								-.0848	
170.000						-.2360								-.0738	
180.000	-.2597	-.2585	-.2495	-.2442	-.2469	-.2248	-.2134	-.1796	-.1528	-.1330	-.1106	-.0942	-.0706	-.0540	.0176

X/L	.7290	.7470	.7650	.8030	.8290	.8620	.9000	.9400
PHI								
60.000						-.0109		
70.000						-.0221	-.0658	.0000
80.000						-.0387	-.1065	-.1319
90.000	-.1598	-.1781	-.1787	-.2427	.0000	-.0679	-.1249	-.1490
100.000	-.1280	-.1670	-.1818	-.1102	.0377	-.0101		
110.000	-.1418	-.1622	-.1719	.1240	.1385	.0753		
120.000						.2211		
130.000						.3055		
140.000						.0648		
150.000						.1504		
160.000						.3497		
170.000						.3309		
180.000	.0706	.1498	.1952	.2294	.2786	.2803		

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (6) = 1.295 ALPHA (7) = 4.352

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.3138	.2463	.0949												
70.000	.3303	.2751	.1834												
80.000	.2852	.2885	.2269												
90.000			.2822	.0237	-.2445	-.2853	-.2944	-.2871	-.2480	-.2186	-.1524	-.1240	-.0937	-.0943	-.1271
100.000						-.2853	-.2960	-.3007	-.2810	-.2504	-.2018	-.1716	-.1366	-.1607	-.1387
110.000						-.2956	-.3035	-.3276	-.3305	-.3335	-.2916	-.2491	-.1790	-.2032	-.1649
120.000						-.2505								.0000	
130.000						-.4270								-.2774	
140.000						-.5893								-.2664	
150.000						-.5573								-.2702	
160.000						-.5048								-.2906	
170.000						-.5052								-.3069	
180.000						-.4721	-.4202	-.3886	-.3568	-.3400	-.3288	-.3291	-.3187	-.3150	-.2908

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1008	-.1088	-.0963	-.1035	-.1008	-.1158	-.0942	-.0790	-.0426	-.0156	-.0076	-.0724	-.0834	-.0882	-.1168
100.000	-.1380	-.1373	-.1257	-.1234	-.1145	-.1300	-.1214	-.1162	-.0808	-.0640	-.0236	-.0762	-.1022	-.0800	-.1394
110.000	.0000	-.1501	-.1473	-.1489	-.1457	-.1563	-.1502	-.1400	-.1200	-.0992	-.0738	-.1052	-.1184	-.1180	.0000
120.000						-.2339								-.2317	
130.000						-.2487								-.1731	
140.000						-.2471								-.1278	
150.000						-.2359								-.0936	
160.000						-.2447								-.0646	
170.000						-.2299								-.0390	
180.000	-.2848	-.2758	-.2663	-.2571	-.2388	-.1818	-.1632	-.1406	-.1208	-.1092	-.0816	-.0712	-.0376	-.0120	.0605

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0393		
70.000							-.0599	-.0734	.0000
80.000							-.0896	-.1192	-.1491
90.000	-.1893	-.2131	-.2152	-.2818	.0000	.0000	-.1048	-.1563	-.1533
100.000	-.1835	-.2048	-.2245	-.1712	-.0020	-.0345			
110.000	-.1802	-.2097	-.2147	.0877	.1050	.0675			
120.000						.2209			
130.000						.2828			
140.000						.0256			
150.000						.1108			
160.000						.2666			
170.000						.2564			
180.000	.1016	.1349	.1647	.1882	.2199	.2331			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.251 ALPHA (8) = 6.508

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2778	.2155	.0405												
70.000	.2817	.2290	.1166												
80.000	.2144	.2187	.1922												
90.000			.2642	.0233	-.2473	-.2888	-.2899	-.2709	-.2216	-.1821	-.1324	-.0977	-.0744	-.0807	-.1090
100.000						-.2823	-.2938	-.2921	-.2534	-.2188	-.1790	-.1697	-.1225	-.1529	-.1270
110.000						-.2961	-.3019	-.3250	-.3195	-.3047	-.2623	-.2091	-.1789	-.2030	-.1777
120.000						-.2578								.0000	
130.000						-.4356								-.3226	
140.000						-.6059								-.3021	
150.000						-.5832								-.2943	
160.000						-.5361								-.3025	
170.000						-.5317								-.3231	
180.000						-.5033	-.4540	-.4197	-.3826	-.3643	-.3542	-.3504	-.3400	-.3339	-.3029

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0890	-.1074	-.1076	-.1179	-.1200	-.1381	-.1253	-.1151	-.0820	-.0470	-.0356	-.0918	-.0958	-.0984	-.1351
100.000	-.1329	-.1516	-.1444	-.1420	-.1416	-.1628	-.1591	-.1525	-.0977	-.1029	-.0580	-.1030	-.0938	-.0908	-.1976
110.000	.0000	-.1736	-.1707	-.1844	-.1869	-.2039	-.1921	-.1831	-.1617	-.1409	-.1141	-.1359	-.1343	-.1399	.0000
120.000						-.2871								-.2471	
130.000						-.2870								-.1557	
140.000						-.2800								-.1036	
150.000						-.2558								-.0690	
160.000						-.2334								-.0448	
170.000						-.1699								-.0270	
180.000	-.2903	-.2854	-.2545	-.2119	-.1675	-.1273	-.1183	-.1055	-.0953	-.0860	-.0642	-.0480	-.0282	-.0060	.0387

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0705		
70.000							-.1006	-.0762	.0000
80.000							-.1328	-.1330	-.1627
90.000	-.2124	-.2413	-.2434	-.3086	.0000	.0000	-.1302	-.1883	-.1595
100.000	-.1879	-.2359	-.2584	-.1957	-.0358	-.0565			
110.000	-.2128	-.2484	-.2510	.0583	.0673	.0483			
120.000						.2171			
130.000						.2616			
140.000						-.0036			
150.000						.0929			
160.000						.2009			
170.000						.1670			
180.000	.0807	.1253	.1569	.1826	.2013	.2664			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (8) = 1.250 ALPHA (9) = 8.601

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.3870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2301	.1793	-.0032												
70.000	.2267	.1882	.0526												
80.000	.1593	.1754	.1235												
90.000			.2184	.0109	-.2468	-.2875	-.2809	-.2469	-.1858	-.1187	-.0626	-.0628	-.0697	-.0668	-.1165
100.000						-.2895	-.2902	-.2781	-.2298	-.1708	-.1080	-.1196	-.1085	-.1519	-.1352
110.000						-.2901	-.2985	-.3210	-.2987	-.2740	-.2118	-.1694	-.1709	-.2083	-.1977
120.000						-.2684								.0000	
130.000						-.4463								-.3568	
140.000						-.6229								-.3314	
150.000						-.6034								-.3041	
160.000						-.5590								-.3045	
170.000						-.5541								-.3234	
180.000						-.5280	-.4860	-.4508	-.4139	-.3934	-.3819	-.3743	-.3578	-.3448	-.3057

X/L	.4500	.4680	.4860	.5040	.5220	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1012	-.1195	-.1187	-.1338	-.1401	-.1546	-.1480	-.1320	-.1084	-.0822	-.0354	-.0812	-.1000	-.1226	-.1396
100.000	-.1495	-.1737	-.1694	-.1705	-.1713	-.1892	-.1840	-.1846	-.1356	-.1396	-.0494	-.1038	-.1022	-.1224	-.1888
110.000	.0000	-.2088	-.2128	-.2246	-.2259	-.2393	-.2380	-.2380	-.2078	-.1764	-.1299	-.1422	-.1404	-.1734	.0000
120.000						-.3501								-.2745	
130.000						-.3430								-.1474	
140.000						-.3048								-.0992	
150.000						-.2360								-.0780	
160.000						-.1798								-.0515	
170.000						-.1264								-.0328	
180.000	-.2882	-.2477	-.1817	-.1426	-.1183	-.1032	-.0956	-.0882	-.0808	-.0726	-.0542	-.0398	-.0222	-.0178	.0001

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0992		
70.000							-.1389	-.0784	.0000
80.000							-.1628	-.1287	-.1943
90.000	-.2386	-.2811	-.2813	-.3368	.0000	.0000	-.1452	-.1983	-.1818
100.000	-.2223	-.2720	-.2959	-.2252	-.0783	-.0705			
110.000	-.2321	-.2896	-.2498	.0212	.0361	.0323			
120.000						.2057			
130.000						.2329			
140.000						-.0175			
150.000						.0942			
160.000						.2141			
170.000						.0564			
180.000	.0240	.0769	.1339	.1721	.2115	.3398			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.401 ALPHA (1) = -8.494

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5200	.4736	.3184												
70.000	.5036	.5104	.3814												
80.000	.5918	.5123	.4099												
90.000			.4186	.1544	-.0619	-.0931	-.1021	-.0915	-.0740	-.0956	-.0805	-.0607	-.0246	-.0170	-.0231
100.000						-.1090	-.1118	-.1175	-.1104	-.1021	-.0787	-.0666	-.0276	-.0418	-.0144
110.000						-.1576	-.1419	-.1473	-.1501	-.1359	-.0852	-.0459	-.0185	-.0329	-.0053
120.000						-.0429								.0000	
130.000						-.1793								-.0163	
140.000						-.2455								-.0291	
150.000						-.2003								-.0338	
160.000						-.1884								-.0431	
170.000						-.1874								-.0548	
180.000						-.1400	-.0972	-.0846	-.0879	-.0581	-.0490	-.0569	-.0554	-.0622	-.0618

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0095	.0118	.0393	.0378	.0478	.0382	.0502	.0512	.0709	.1067	.1294	.1097	.0861	.0954	.0826
100.000	-.0015	-.0093	.0123	.0262	.0366	.0266	.0297	.0325	.0576	.0835	.1161	.1108	.0901	.0933	.0852
110.000	.0000	.0091	.0188	.0243	.0247	.0214	.0281	.0325	.0390	.0561	.0865	.1002	.0956	.0852	.0000
120.000						.0154								.0509	
130.000						-.0103								.0342	
140.000						-.0242								.0066	
150.000						-.0157								-.0144	
160.000						-.0330								-.0360	
170.000						-.0499								-.0699	
180.000	-.0870	-.0865	-.0836	-.0836	-.0706	-.0780	-.0928	-.1034	-.1030	-.1015	-.0847	-.0905	-.0861	-.0838	-.0758

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2072		
70.000							.1788	.1327	.0000
80.000							.1578	.0836	.0666
90.000	.0803	.0903	.0908	.0815	.0000	.0000	.1307	.0807	.0819
100.000	.0860	.0838	.0738	.1796	.2101	.1535			
110.000	.0898	.0705	.1244	.2910	.2783	.1806			
120.000						.3031			
130.000						.4720			
140.000						.3123			
150.000						.3794			
160.000						.6175			
170.000						.6871			
180.000	-.0807	-.0421	.2441	.3772	.4398	.4424			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.401 ALPHA (2) = -6.348

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4782	.4358	.2812												
70.000	.5377	.4736	.3296												
80.000	.5327	.4966	.3733												
90.000			.3973	.1370	-.0695	-.1023	-.1120	-.0999	-.0832	-.1044	-.0942	-.0855	-.0533	-.0431	-.0523
100.000						-.1150	-.1227	-.1280	-.1175	-.1130	-.0980	-.0965	-.0537	-.0705	-.0433
110.000						-.1585	-.1500	-.1582	-.1618	-.1563	-.1084	-.0697	-.0478	-.0642	-.0333
120.000						-.0611								.0000	
130.000						-.2017								-.0493	
140.000						-.2826								-.0595	
150.000						-.2422								-.0674	
160.000						-.2257								-.0758	
170.000						-.2247								-.0901	
180.000						-.1811	-.1420	-.1280	-.1092	-.0995	-.0662	-.0952	-.0926	-.0973	-.0933

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0221	-.0214	.0051	.0049	.0196	.0146	.0264	.0293	.0435	.0756	.0989	.0780	.0447	.0493	.0478
100.000	-.0278	-.0344	-.0197	-.0015	.0082	.0046	.0080	.0131	.0340	.0390	.0833	.0730	.0508	.0491	.0489
110.000	.0000	-.0182	-.0121	-.0064	-.0068	-.0044	.0032	.0108	.0177	.0279	.0557	.0664	.0555	.0422	.0000
120.000						-.0197								.0074	
130.000						-.0440								-.0054	
140.000						-.0565								-.0313	
150.000						-.0509								-.0481	
160.000						-.0680								-.0711	
170.000						-.0857								-.1000	
180.000	-.1024	-.1013	-.0979	-.0962	-.1043	-.1139	-.1251	-.1356	-.1341	-.1281	-.1159	-.1207	-.1169	-.1096	-.0989

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1568		
70.000							.1329	.0938	.0000
80.000							.1108	.0441	.0194
90.000	.0100	.0068	.0109	.0250	.0000	.0000	.0851	.0218	.0078
100.000	.0310	.0189	.0241	.1284	.1727	.1195			
110.000	.0330	.0261	.0556	.2434	.2490	.1585			
120.000						.2881			
130.000						.4318			
140.000						.2242			
150.000						.2978			
160.000						.5429			
170.000						.6247			
180.000	-.1122	-.0721	.2042	.3243	.3775	.3786			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.400 ALPHA (3) = -4.212

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.4450	.3971	.2379												
70.000	.4852	.4319	.3072												
80.000	.4695	.4328	.3593												
90.000			.3867	.1205	-.0821	-.1085	-.1259	-.1183	-.0918	-.1039	-.0948	-.0963	-.0706	-.0827	-.0721
100.000						-.1182	-.1293	-.1432	-.1240	-.1157	-.1052	-.1128	-.0742	-.0897	-.0859
110.000						-.1713	-.1500	-.1673	-.1756	-.1726	-.1331	-.0944	-.0723	-.0861	-.0802
120.000						-.0969								.0000	
130.000						-.2343								-.0798	
140.000						-.3246								-.0934	
150.000						-.2870								-.0995	
160.000						-.2620								-.1080	
170.000						-.2645								-.1240	
180.000						-.2248	-.1828	-.1688	-.1502	-.1348	-.1236	-.1295	-.1278	-.1312	-.1287

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.0466	-.0436	-.0228	-.0256	-.0186	-.0109	-.0026	.0050	.0221	.0495	.0750	.0544	.0172	.0099	.0131
100.000	-.0526	-.0587	-.0475	-.0336	-.0254	-.0247	-.0139	-.0101	.0098	.0124	.0560	.0497	.0236	.0107	.0087
110.000	.0000	-.0419	-.0360	-.0353	-.0347	-.0373	-.0229	-.0131	-.0072	.0103	.0276	.0343	.0271	.0056	.0000
120.000						-.0511								-.0303	
130.000						-.0754								-.0432	
140.000						-.0868								-.0656	
150.000						-.0827								-.0845	
160.000						-.1009								-.1087	
170.000						-.1192								- 287	
180.000	-.1331	-.1304	-.1278	-.1257	-.1295	-.1417	-.1514	-.1616	-.1622	-.1655	-.1546	-.1558	-.1412	-.1283	-.1187

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1058		
70.000							.0913	.0606	.0000
80.000							.0743	.0115	-.0153
90.000	-.0887	-.0358	-.0238	-.0348	.0000	.0000	.0504	-.0102	-.0301
100.000	-.0025	-.0283	-.0178	.0708	.1377	.0986			
110.000	-.0096	-.0172	-.0020	.2047	.2245	.1459			
120.000						.2843			
130.000						.3974			
140.000						.1528			
150.000						.2246			
160.000						.4679			
170.000						.5562			
180.000	-.1313	-.0805	.1682	.2765	.3223	.3328			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.401 ALPHA (4) = -2.098

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4167	.3532	.2193												
70.000	.4442	.3845	.2832												
80.000	.4127	.4095	.3359												
90.000			.3842	.1356	-.1033	-.1407	-.1577	-.1630	-.1298	-.1328	-.0924	-.0939	-.0759	-.0716	-.0776
100.000						-.1456	-.1584	-.1747	-.1653	-.1944	-.1277	-.1203	-.0856	-.1015	-.0750
110.000						-.1694	-.1757	-.1956	-.2072	-.2047	-.1884	-.1188	-.0863	-.1016	-.0725
120.000						-.1022								.0000	
130.000						-.2505								-.1211	
140.000						-.3576								-.1381	
150.000						-.3200								-.1410	
160.000						-.2891								-.1447	
170.000						-.2946								-.1579	
180.000						-.2609	-.2193	-.2026	-.1822	-.1689	-.1580	-.1638	-.1619	-.1633	-.1604

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0585	-.0595	-.0452	-.0472	-.0413	-.0406	-.0282	-.0213	-.0103	.0255	.0540	.0331	-.0018	-.0222	-.0119
100.000	-.0867	-.0776	-.0648	-.0542	-.0438	-.0502	-.0480	-.0386	-.0184	-.0130	.0346	.0261	.0059	-.0145	-.0189
110.000	.0000	-.0825	-.0549	-.0536	-.0600	-.0642	-.0549	-.0455	-.0394	-.0234	.0050	.0080	.0021	-.0213	.0000
120.000						-.0818								-.0737	
130.000						-.1032								-.0843	
140.000						-.1140								-.1029	
150.000						-.1121								-.1164	
160.000						-.1267								-.1368	
170.000						-.1425								-.1602	
180.000	-.1647	-.1624	-.1514	-.1535	-.1562	-.1663	-.1761	-.1855	-.1880	-.1890	-.1796	-.1812	-.1685	-.1517	-.1261

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0665		
70.000							.0585	.0254	.0000
80.000							.0437	-.0174	-.0460
90.000	-.0537	-.0787	-.0584	-.0902	.0000	.0000	.0261	-.0380	-.0611
100.000	-.0242	-.0603	-.0579	-.0014	.1121	.0822			
110.000	-.0333	-.0484	-.0504	.1695	.2152	.1390			
120.000						.2941			
130.000						.3816			
140.000						.0970			
150.000						.1759			
160.000						.4015			
170.000						.4739			
180.000	-.1456	-.0018	.1637	.2373	.2745	.2935			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.401 ALPHA (5) = .085

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3828	.3390	.2043												
70.000	.4143	.3605	.2701												
80.000	.3708	.3689	.3276												
90.000			.3851	.1403	-.1105	-.1536	-.1718	-.1750	-.1733	-.1966	-.1721	-.1252	-.0782	-.0758	-.0833
100.000						-.1349	-.1674	-.1839	-.1852	-.1972	-.2017	-.1902	-.1130	-.1171	-.0722
110.000						-.1629	-.1706	-.2042	-.2173	-.2389	-.2370	-.2159	-.1538	-.1262	-.0816
120.000						-.1135								.0000	
130.000						-.2673								-.1885	
140.000						-.3697								-.1868	
150.000						-.3565								-.1847	
160.000						-.3199								-.1829	
170.000						-.3235								-.1898	
180.000						-.2939	-.2585	-.2350	-.2128	-.1976	-.1907	-.1932	-.1908	-.1921	-.1948

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0590	-.0822	-.0510	-.0582	-.0154	-.0561	-.0465	-.0426	-.0261	.0078	.0335	.0131	-.0251	-.0380	-.0296
100.000	-.0893	-.0826	-.0706	-.0871	-.0813	-.0726	-.0682	-.0588	-.0355	-.0346	.0112	.0053	-.0125	-.0317	-.0398
110.000	.0000	-.0748	-.0695	-.0897	-.0758	-.0652	-.0680	-.0667	-.0626	-.0548	-.0253	-.0175	-.0165	-.0467	.0000
120.000						-.1122								-.1068	
130.000						-.1320								-.1201	
140.000						-.1376								-.1351	
150.000						-.1351								-.1486	
160.000						-.1487								-.1655	
170.000						-.1639								-.1787	
180.000	-.2001	-.2016	-.1887	-.1778	-.1785	-.1828	-.1932	-.2010	-.2005	-.2062	-.2037	-.1966	-.1787	-.1643	-.1284

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0324		
70.000							.0250	-.0120	.0000
80.000							.0020	-.0459	-.0706
90.000	-.0735	-.0867	-.0868	-.1291	.0000	.0000	-.0056	-.0894	-.0898
100.000	-.0464	-.0868	-.0920	-.0683	.0739	.0590			
110.000	-.0962	-.0790	-.0847	.1083	.1927	.1270			
120.000						.2844			
130.000						.3467			
140.000						.0699			
150.000						.1384			
160.000						.3217			
170.000						.3713			
180.000	-.1036	-.0736	.1662	.2249	.2531	.3367			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.400 ALPHA (6) = 2.186

SECTION (1)ORB. FUSELAGE DEPENDENT VAR' .E CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3678	.3282	.1609												
70.000	.3901	.3467	.2271												
80.000	.3252	.3408	.2938												
90.000			.3623	.1426	-.1226	-.1649	-.1790	-.1874	-.1851	-.2068	-.2016	-.2020	-.1404	-.1168	-.1042
100.000						-.1645	-.1787	-.1937	-.1933	-.2052	-.2115	-.2369	-.2026	-.1926	-.1057
110.000						-.1708	-.1872	-.2123	-.2259	-.2489	-.2525	-.2453	-.2364	-.2377	-.1263
120.000						-.1222								.0000	
130.000						-.2876								-.2377	
140.000						-.4294								-.2277	
150.000						-.3923								-.2181	
160.000						-.3507								-.2141	
170.000						-.3530								-.2190	
180.000						-.3270	-.2867	-.2650	-.2413	-.2263	-.2164	-.2221	-.2183	-.2215	-.2217

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0722	-.0737	-.0571	-.0656	-.0646	-.0616	-.0533	-.0444	-.0308	.0013	.0262	.0042	-.0363	-.0465	-.0484
100.000	-.0875	-.0905	-.0828	-.0754	-.0707	-.0798	-.0744	-.0658	-.0400	-.0388	.0021	-.0067	-.0283	-.0456	-.0628
110.000	.0000	-.0915	-.0845	-.0864	-.0871	-.0954	-.0859	-.0811	-.0738	-.0609	-.0358	-.0338	-.0365	-.0665	.0000
120.000						-.1413								-.1504	
130.000						-.1563								-.1511	
140.000						-.1606								-.1617	
150.000						-.1602								-.1702	
160.000						-.1738								-.1800	
170.000						-.1861								-.1746	
180.000	-.2284	-.2290	-.2182	-.2093	-.2020	-.2023	-.2134	-.2211	-.2217	-.2233	-.2077	-.1906	-.1596	-.1288	-.0782

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0032		
70.000							-.0278	-.0284	.0000
80.000							-.0400	-.0770	-.1042
90.000	-.0916	-.1292	-.1190	-.1613	.0000	.0000	-.0275	-.1048	-.1182
100.000	-.0665	-.1120	-.1270	-.1235	.0203	.0426			
110.000	-.0791	-.1073	-.1259	.0214	.1632	.1214			
120.000						.2769			
130.000						.3136			
140.000						.0328			
150.000						.1212			
160.000						.2865			
170.000						.2676			
180.000	-.0113	.1064	.1473	.1781	.2184	.2705			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.400 ALPHA (7) = 4.311

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3578	.3095	.1215												
70.000	.3574	.3148	.1856												
80.000	.3032	.3068	.2361												
90.000			.3205	.1372	-.1307	-.1785	-.1928	-.1994	-.1929	-.2083	-.1975	-.1886	-.1590	-.1475	-.1223
100.000						-.1743	-.1865	-.2002	-.2038	-.2104	-.2152	-.2334	-.1985	-.2146	-.1478
110.000						-.1762	-.1920	-.2205	-.2343	-.2585	-.2607	-.2503	-.2403	-.2440	-.1911
120.000						-.1318								.0000	
130.000						-.2985								-.2800	
140.000						-.4588								-.2611	
150.000						-.4324								-.2448	
160.000						-.3851								-.2391	
170.000						-.3779								-.2416	
180.000						-.3545	-.3179	-.2943	-.2670	-.2509	-.2429	-.2457	-.2431	-.2469	-.2427

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0953	-.0975	-.0826	-.0858	-.0773	-.0777	-.0658	-.0558	-.0369	-.0061	.0219	.0017	-.0531	-.0594	-.0656
100.000	-.1250	-.1276	-.1092	-.0958	-.0924	-.0962	-.0869	-.0812	-.0535	-.0494	-.0017	-.0104	-.0433	-.0610	-.0831
110.000	.0000	-.1315	-.1189	-.1155	-.1145	-.1196	-.1039	-.0990	-.0912	-.0785	-.0550	-.0450	-.0596	-.0919	.0000
120.000						-.1701								-.1924	
130.000						-.1831								-.1901	
140.000						-.1896								-.1924	
150.000						-.1856								-.1916	
160.000						-.1968								-.1777	
170.000						-.2120								-.1385	
180.000	-.2481	-.2464	-.2347	-.2256	-.2247	-.2235	-.2314	-.2366	-.2350	-.2283	-.1908	-.1554	-.1177	-.0833	.0058

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0548		
70.000							-.0756	-.0547	.0000
80.000							-.0716	-.1113	-.1263
90.000	-.1111	-.1529	-.1534	-.1882	.0000	.0000	-.0463	-.1321	-.1467
100.000	-.0909	-.1341	-.1620	-.1616	-.0413	.0232			
110.000	-.1086	-.1399	-.1609	-.0568	.1255	.1115			
120.000						.2752			
130.000						.2931			
140.000						.0044			
150.000						.0844			
160.000						.2317			
170.000						.2111			
180.000	.0809	.1034	.1214	.1418	.1660	.2069			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.399 ALPHA (8) = 6.409

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.3289	.2735	.0859												
70.000	.3095	.2811	.1346												
80.000	.2535	.2611	.1742												
90.000			.2377	.1160	-.1416	-.1914	-.2020	-.2050	-.1915	-.2014	-.1775	-.1634	-.1370	-.1255	-.1290
100.000						-.1842	-.1946	-.2056	-.2026	-.2054	-.2026	-.2103	-.1763	-.1943	-.1493
110.000						-.1842	-.1986	-.2261	-.2358	-.2575	-.2552	-.2465	-.2236	-.2393	-.1888
120.000						-.1515								.0000	
130.000						-.3113								-.3125	
140.000						-.4749								-.2966	
150.000						-.4637								-.2743	
160.000						-.4236								-.2639	
170.000						-.4058								-.2684	
180.000						-.3852	-.3490	-.3201	-.2911	-.2746	-.2666	-.2709	-.2686	-.2680	-.2605

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1003	-.1037	-.0891	-.0908	-.0833	-.0861	-.0691	-.0557	-.0368	-.0147	.0105	-.0233	-.0811	-.0922	-.0959
100.000	-.1387	-.1417	-.1328	-.1194	-.1050	-.1120	-.1019	-.0932	-.0568	-.0555	-.0135	-.0366	-.0741	-.0901	-.1144
110.000	.0000	-.1669	-.1589	-.1565	-.1457	-.1463	-.1342	-.1161	-.1022	-.0825	-.0685	-.0780	-.0961	-.1280	.0000
120.000						-.2090								-.2527	
130.000						-.2185								-.2377	
140.000						-.2179								-.2192	
150.000						-.2112								-.1750	
160.000						-.2208								-.1138	
170.000						-.2291								-.0732	
180.000	-.2809	-.2554	-.2425	-.2363	-.2338	-.2358	-.2420	-.2301	-.2035	-.1654	-.1149	-.0928	-.0645	-.0433	.0127

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1196		
70.000							-.1229	-.0879	.0000
80.000							-.1014	-.1410	-.1446
90.000	-.1392	-.1813	-.1853	-.2176	.0000	.0000	-.0671	-.1590	-.1740
100.000	-.1208	-.1660	-.1986	-.1985	-.1105	-.0073			
110.000	-.1432	-.1744	-.2025	-.0992	.0745	.1015			
120.000						.2703			
130.000						.2705			
140.000						-.0179			
150.000						.0754			
160.000						.1622			
170.000						.1353			
180.000	.0587	.0855	.1033	.1219	.1460	.2218			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (9) = 1.399 ALPHA (9) = 8.569

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.2934	.2329	.0549												
70.000	.2592	.2365	.0986												
80.000	.2051	.2160	.1338												
90.000			.1641	.0901	-.1520	-.1963	-.2073	-.2077	-.1893	-.1839	-.1524	-.1311	-.1023	-.0982	-.1190
100.000						-.1934	-.2018	-.2086	-.1997	-.1946	-.1830	-.1847	-.1456	-.1853	-.1354
110.000						-.1889	-.2020	-.2280	-.2360	-.2569	-.2485	-.2240	-.2008	-.2118	-.1826
120.000						-.1638								.0000	
130.000						-.3213								-.3473	
140.000						-.4877								-.3260	
150.000						-.4839								-.2938	
160.000						-.4510								-.2828	
170.000						-.4303								-.2839	
180.000						-.4149	-.3807	-.3500	-.3196	-.3034	-.2972	-.2926	-.2855	-.2853	-.2743

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0942	-.0981	-.0729	-.0653	-.0825	-.0687	-.0639	-.0639	-.0543	-.0474	-.0231	-.0529	-.1153	-.1206	-.1229
100.000	-.1350	-.1434	-.1282	-.1025	-.0904	-.1088	-.1033	-.1080	-.0824	-.0974	-.0556	-.0779	-.1089	-.1241	-.1386
110.000	.0000	-.1747	-.1708	-.1609	-.1502	-.1625	-.1520	-.1468	-.1405	-.1305	-.1205	-.1218	-.1320	-.1585	.0000
120.000						-.2736								-.3519	
130.000						-.2492								-.2832	
140.000						-.2421								-.2045	
150.000						-.2307								-.1376	
160.000						-.2352								-.0964	
170.000						-.2392								-.0710	
180.000	-.2721	-.2845	-.2524	-.2466	-.2426	-.2311	-.2057	-.1545	-.1205	-.1043	-.0845	-.0779	-.0656	-.0585	-.0328

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
60.000							-.1766		
70.000							-.1719	-.0968	.0000
80.000							-.1355	-.1595	-.1489
90.000	-.1590	-.2008	-.2059	-.2382	.0000	.0000	-.0932	-.1774	-.1708
100.000	-.1415	-.1864	-.2198	-.2260	-.1689	-.0334			
110.000	-.1645	-.2076	-.2320	-.0914	.0237	.0728			
120.000						.2361			
130.000						.2384			
140.000						-.0142			
150.000						.0925			
160.000						.1651			
170.000						.0259			
180.000	.0038	.0549	.0909	.1201	.1544	.2561			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (15) = 1.500 ALPHA (1) = -8.509

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5377	.4917	.3232												
70.000	.5872	.5262	.3923												
80.000	.5908	.5531	.4357												
90.000			.4590	.1880	-.0336	-.0700	-.0562	-.0495	-.0336	-.0480	-.0370	-.0253	.0052	.0128	.0035
100.000						-.0812	-.0815	-.0688	-.0662	-.0634	-.0404	-.0329	.0024	-.0112	.0122
110.000						-.1257	-.1211	-.1005	-.1014	-.0988	-.0563	-.0112	.0080	-.0014	.0240
120.000						-.0098								.0000	
130.000						-.1350								.0126	
140.000						-.1975								-.0005	
150.000						-.1600								-.0044	
160.000						-.1430								-.0082	
170.000						-.1450								-.0201	
180.000						-.1119	-.0715	-.0573	-.0476	-.0368	-.0225	-.0272	-.0280	-.0285	-.0195

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0294	.0313	.0597	.0599	.0635	.0578	.0731	.0843	.1086	.1412	.1612	.1404	.1081	.0951	.0919
100.000	.0266	.0192	.0376	.0525	.0595	.0501	.0515	.0649	.0940	.0991	.1428	.1366	.1125	.0996	.0944
110.000	.0000	.0378	.0486	.0525	.0535	.0472	.0534	.0617	.0740	.0890	.1142	.1269	.1163	.1021	.0000
120.000						.0501								.0744	
130.000						.0302								.0549	
140.000						.0190								.0287	
150.000						.0264								.0050	
160.000						.0099								-.0161	
170.000						-.0053								-.0437	
180.000	-.0287	-.0242	-.0169	-.0193	-.0257	-.0312	-.0447	-.0539	-.0606	-.0634	-.0576	-.0640	-.0611	-.0563	-.0602

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2117		
70.000							.1832	.1536	.0000
80.000							.1624	.1034	.0798
90.000	.0647	.0636	.0771	.1004	.0000	.0000	.1348	.0791	.0661
100.000	.0885	.0704	.0831	.1947	.2285	.1722			
110.000	.0856	.0813	.1233	.3061	.3006	.2032			
120.000						.3403			
130.000						.4989			
140.000						.2873			
150.000						.3434			
160.000						.6045			
170.000						.6835			
180.000	-.0606	-.0401	.1527	.3436	.4154	.4444			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.500 ALPHA (2) = -6.384

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5051	.4514	.3902												
70.000	.5502	.4823	.3664												
80.000	.5309	.4884	.4155												
90.000			.4444	.1828	-.0446	-.0854	-.1011	-.0721	-.0569	-.0672	-.0467	-.0420	-.0189	-.0091	-.0214
100.000						-.0918	-.1020	-.1117	-.0819	-.0846	-.0660	-.0554	-.0193	-.0321	-.0091
110.000						-.1269	-.1272	-.1376	-.1342	-.1206	-.0946	-.0440	-.0167	-.0280	-.0033
120.000						-.0203								.0000	
130.000						-.1597								-.0289	
140.000						-.2356								-.0372	
150.000						-.2006								-.0438	
160.000						-.1775								-.0517	
170.000						-.1813								-.0596	
180.000						-.1517	-.1103	-.0950	-.0848	-.0738	-.0634	-.0647	-.0675	-.0671	-.0592

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0042	.0010	.0241	.0207	.0260	.0198	.0354	.0475	.0726	.1046	.1329	.1148	.0873	.0686	.0708
100.000	.0009	-.0110	.0044	.0177	.0236	.0133	.0194	.0323	.0570	.0691	.1147	.1112	.0927	.0790	.0690
110.000	.0000	.0067	.0179	.0186	.0166	.0135	.0211	.0289	.0380	.0538	.0828	.0980	.0928	.0763	.0000
120.000						.0198								.0401	
130.000						-.0032								.0187	
140.000						-.0120								-.0059	
150.000						-.0086								-.0274	
160.000						-.0234								-.0464	
170.000						-.0401								-.0777	
180.000	-.0840	-.0827	-.0544	-.0504	-.0555	-.0642	-.0786	-.0874	-.0913	-.0949	-.0873	-.0928	-.0894	-.0894	-.0932

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1566		
70.000							.1371	.1095	.0000
80.000							.1189	.0819	.0384
90.000	.0358	.0201	.0405	.0454	.0000	.0000	.0972	.0427	.0267
100.000	.0578	.0344	.0466	.1419	.1907	.1418			
110.000	.0549	.0475	.0603	.2577	.2716	.1826			
120.000						.3275			
130.000						.4627			
140.000						.2117			
150.000						.2507			
160.000						.5210			
170.000						.6156			
180.000	-.1080	-.0749	.1382	.2959	.3543	.3626			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.500 ALPHA (3) = -4.263

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2540	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4762	.4120	.2659												
70.000	.5107	.4361	.3305												
80.000	.4842	.4308	.3870												
90.000			.4270	.1791	-.0551	-.0962	-.1128	-.1158	-.0664	-.0867	-.0731	-.0547	-.0354	-.0297	-.0418
100.000						-.0983	-.1113	-.1276	-.1204	-.0882	-.0948	-.0884	-.0424	-.0552	-.0322
110.000						-.1257	-.1325	-.1459	-.1565	-.1579	-.1139	-.0874	-.0465	-.0527	-.0277
120.000						-.0464								.0000	
130.000						-.1806								-.0661	
140.000						-.2707								-.0727	
150.000						-.2385								-.0789	
160.000						-.2101								-.0851	
170.000						-.2137								-.0923	
180.000						-.1906	-.1499	-.1329	-.1189	-.1075	-.0988	-.0998	-.0991	-.0991	-.0960

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0184	-.0199	-.0004	-.0060	-.0015	-.0054	.0049	.0191	.0351	.0662	.0970	.0870	.0612	.0369	.0471
100.000	-.0245	-.0309	-.0171	-.0071	-.0022	-.0120	-.0096	.0028	.0241	.0294	.0786	.0822	.0657	.0498	.0491
110.000	.0000	-.0171	-.0062	-.0058	-.0064	-.0117	-.0073	.0028	.0097	.0218	.0493	.0627	.0608	.0470	.0000
120.000						-.0134								.0034	
130.000						-.0319								-.0150	
140.000						-.0428								-.0415	
150.000						-.0378								-.0608	
160.000						-.0560								-.0821	
170.000						-.0710								-.1058	
180.000	-.0945	-.0921	-.0851	-.0800	-.0847	-.0946	-.1059	-.1164	-.1178	-.1222	-.1143	-.1210	-.1183	-.1198	-.1234

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1082		
70.000							.0963	.0754	.0000
80.000							.0851	.0263	.0069
90.000	.0079	-.0111	.0054	-.0077	.0000	.0000	.0676	.0069	-.0084
100.000	.0308	.0056	.0052	.0850	1599	.1241			
110.000	.0224	.0148	.0086	.2144	.2490	.1684			
120.000						.3192			
130.000						.4263			
140.000						.1470			
150.000						.1789			
160.000						.4393			
170.000						.5445			
180.000	-.1349	-.0993	.1371	.2485	.2977	.3154			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.501 ALPHA (4) = -1.102

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4445	.3805	.2280												
70.000	.4756	.3967	.2926												
80.000	.4352	.4028	.3471												
90.000			.4056	.1694	-.0499	-.0903	-.1048	-.1130	-.1126	-.1369	-.1120	-.0925	-.0464	-.0375	-.0419
100.000						-.0915	-.1062	-.1202	-.1251	-.1376	-.1429	-.1325	-.0848	-.0747	-.0373
110.000						-.1178	-.1225	-.1393	-.1513	-.1742	-.1731	-.1489	-.0954	-.0995	-.0371
120.000						-.0568								.0000	
130.000						-.1988								-.1214	
140.000						-.3018								-.1216	
150.000						-.2702								-.1175	
160.000						-.2370								-.1161	
170.000						-.2421								-.1214	
180.000						-.2218	-.1843	-.1657	-.1482	-.1361	-.1227	-.1275	-.1220	-.1231	-.1218

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0219	-.0270	-.0113	-.0170	-.0162	-.0281	-.0220	-.0137	.0043	.0364	.0664	.0584	.0324	.0100	.0259
100.000	-.0322	-.0439	-.0296	-.0206	-.0207	-.0307	-.0352	-.0253	-.0001	.0051	.0448	.0539	.0368	.0235	.0029
110.000	.0000	-.0307	-.0213	-.0209	-.0260	-.0336	-.0331	-.0253	-.0185	-.0076	.0191	.0334	.0343	.0176	.0000
120.000						-.0419								-.0360	
130.000						-.0592								-.0517	
140.000						-.0667								-.0728	
150.000						-.0646								-.0892	
160.000						-.0803								-.1080	
170.000						-.0949								-.1339	
180.000	-.1278	-.1252	-.1126	-.1089	-.1116	-.1174	-.1266	-.1341	-.1374	-.1414	-.1373	-.1435	-.1429	-.1433	-.1488

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
60.000							.0759		
70.000							.0670	.0477	.0000
80.000							.0490	.0047	-.0209
90.000	-.0127	-.0344	-.0284	-.0500	.0000	.0000	.0479	-.0151	-.0378
100.000	.0078	-.0180	-.0298	.0183	.1336	.1160			
110.000	-.0033	-.0120	-.0244	.1750	.2379	.1721			
120.000						.3262			
130.000						.3874			
140.000						.0893			
150.000						.1416			
160.000						.3648			
170.000						.4481			
180.000	-.1535	-.0853	.1488	.2073	.2492	.2652			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (1C) = 1.500 ALPHA (5) = -.014

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4149	.3603	.2152												
70.000	.4352	.3728	.2697												
80.000	.3891	.3688	.3264												
90.000			.3945	.1875	-.0536	-.0985	-.1162	-.1262	-.1270	-.1474	-.1448	-.1520	-.1231	-.0969	-.0584
100.000						-.0964	-.1122	-.1298	-.1365	-.1482	-.1573	-.1787	-.1623	-.1600	-.0628
110.000						-.1061	-.1221	-.1484	-.1609	-.1872	-.1918	-.1827	-.1697	-.1770	-.0875
120.000						-.0623								.0000	
130.000						-.2088								-.1593	
140.000						-.3276								-.1516	
150.000						-.2988								-.1455	
160.000						-.2641								-.1408	
170.000						-.2675								-.1444	
180.000						-.2508	-.2151	-.1939	-.1757	-.1611	-.1474	-.1516	-.1478	-.1472	-.1459

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0307	-.0303	-.0162	-.0241	-.0294	-.0420	-.0331	-.0250	-.0095	.0172	.0487	.0356	.0152	-.0114	.0004
100.000	-.0407	-.0443	-.0343	-.0305	-.0313	-.0477	-.0478	-.0429	-.0191	-.0191	.0290	.0313	.0161	.0062	-.0231
110.000	.0000	-.0432	-.0343	-.0354	-.0398	-.0500	-.0490	-.0434	-.0394	-.0333	-.0039	.0077	.0104	-.0068	.0000
120.000						-.0731								-.0787	
130.000						-.0853								-.0883	
140.000						-.0910								-.1056	
150.000						-.0912								-.1185	
160.000						-.1039								-.1353	
170.000						-.1211								-.1564	
180.000	-.1497	-.1516	-.1501	-.1448	-.1438	-.1415	-.1503	-.1559	-.1608	-.1635	-.1605	-.1651	-.1666	-.1647	-.1662

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0440		
70.000							.0301	.0225	.0000
80.000							.0151	-.0198	-.0496
90.000	-.0355	-.0587	-.0575	-.0808	.0000	.0000	.0246	-.0413	-.0635
100.000	-.0136	-.0415	-.0587	-.0391	.0927	.0893			
110.000	-.0255	-.0353	-.0562	.1109	.2111	.1560			
120.000						.3276			
130.000						.3802			
140.000						.0394			
150.000						.1081			
160.000						.2673			
170.000						.3437			
180.000	-.1648	.0349	.1411	.1783	.1990	.2463			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.501 ALPHA (6) = 2.237

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.3858	.3574	.1854												
70.000	.3887	.3600	.2338												
80.000	.3403	.3467	.2818												
90.000			.3597	.1892	-.0640	-.1108	-.1306	-.1389	-.1389	-.1580	-.1533	-.1618	-.1551	-.1531	-.1231
100.000						-.1067	-.1217	-.1372	-.1433	-.1567	-.1666	-.1893	-.1770	-.1951	-.1514
110.000						-.1038	-.1245	-.1535	-.1707	-.1987	-.2010	-.2006	-.1961	-.2093	-.1751
120.000						-.0722								.0000	
130.000						-.2201								-.2070	
140.000						-.3572								-.1930	
150.000						-.3301								-.1766	
160.000						-.2929								-.1706	
170.000						-.2938								-.1714	
180.000						-.2766	-.2442	-.2200	-.1991	-.1819	-.1780	-.1812	-.1746	-.1736	-.1715

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	-.0719	-.0544	-.0332	-.0348	-.0383	-.0530	-.0476	-.0416	-.0270	.0092	.0407	.0293	.0071	-.0241	-.0117
100.000	-.1000	-.0757	-.0510	-.0442	-.0398	-.0579	-.0804	-.0574	-.0362	-.0324	.0179	.0227	.0037	-.0086	-.0356
110.000	.0000	-.0838	-.0808	-.0559	-.0557	-.0687	-.0679	-.0810	-.0608	-.0497	-.0178	-.0057	-.0076	-.0243	.0000
120.000						-.1045								-.1095	
130.000						-.1134								-.1220	
140.000						-.1199								-.1356	
150.000						-.1196								-.1469	
160.000						-.1351								-.1613	
170.000						-.1510								-.1784	
180.000	-.1785	-.1789	-.1787	-.1746	-.1733	-.1685	-.1708	-.1748	-.1770	-.1812	-.1814	-.1854	-.1803	-.1764	-.1360

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0007		
70.000							-.0172	-.0033	.0000
80.000							-.0192	-.0574	-.0792
90.000	-.0496	-.0774	-.0839	-.1085	.0000	.0000	.0019	-.0734	-.0948
100.000	-.0297	-.0821	-.0901	-.0847	.0404	.0758			
110.000	-.0432	-.0985	-.0869	.0179	.1887	.1509			
120.000						.3153			
130.000						.3337			
140.000						-.0144			
150.000						.0964			
160.000						.2402			
170.000						.2402			
180.000	-.0328	.0820	.1145	.1380	.1800	.2324			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.900 ALPHA (7) = 4.261

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3691	.3359	.1527												
70.000	.3495	.3397	.1978												
80.000	.2904	.3184	.2308												
90.000			.2760	.1734	-.0800	-.1295	-.1459	-.1531	-.1474	-.1624	-.1555	-.1606	-.1477	-.1420	-.1341
100.000						-.1236	-.1381	-.1482	-.1533	-.1612	-.1677	-.1930	-.1769	-.1960	-.1626
110.000						-.1194	-.1362	-.1624	-.1750	-.2017	-.2095	-.2086	-.2091	-.2231	-.1880
120.000						-.0869								.0000	
130.000						-.2361								-.2380	
140.000						-.3789								-.2246	
150.000						-.3552								-.2061	
160.000						-.3198								-.1958	
170.000						-.3141								-.1939	
180.000						-.2980	-.2680	-.2456	-.2218	-.2065	-.1964	-.1967	-.1927	-.1944	-.1920

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0911	-.0777	-.0583	-.0600	-.0594	-.0687	-.0810	-.0568	-.0382	.0004	.0312	.0137	-.0061	-.0385	-.0224
100.000	-.1307	-.1113	-.0841	-.0706	-.0653	-.0815	-.0813	-.0773	-.0502	-.0454	.0082	.0099	-.0063	-.0220	-.0397
110.000	.0000	-.1282	-.0934	-.0875	-.0869	-.0981	-.0942	-.0878	-.0786	-.0681	-.0355	-.0249	-.0264	-.0427	.0000
120.000						-.1374								-.1459	
130.000						-.1460								-.1528	
140.000						-.1507								-.1610	
150.000						-.1504								-.1652	
160.000						-.1638								-.1792	
170.000						-.1761								-.1905	
180.000	-.1983	-.1981	-.1964	-.1910	-.1893	-.1893	-.1910	-.1947	-.2000	-.2035	-.1984	-.1976	-.1810	-.1585	-.0610

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0526		
70.000							-.0573	-.0315	.0000
80.000							-.0370	-.0795	-.1022
90.000	-.0824	-.0986	-.1084	-.1309	.0000	.0000	-.0068	-.0940	-.1198
100.000	-.0446	-.0808	-.1157	-.1173	-.0266	.0564			
110.000	-.0822	-.0857	-.1138	-.0541	.1517	.1467			
120.000						.3113			
130.000						.3515			
140.000						-.0250			
150.000						.0873			
160.000						.2089			
170.000						.1898			
180.000	.0234	.0897	.1110	.1267	.1598	.2145			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.501 ALPHA (8) = 6.354

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3437	.2958	.1198												
70.000	.3087	.2931	.1586												
80.000	.2943	.2740	.1881												
90.000			.2175	.1471	-.0913	-.1421	-.1569	-.1680	-.1558	-.1619	-.1490	-.1456	-.1208	-.1144	-.1098
100.000						-.1364	-.1454	-.1558	-.1573	-.1649	-.1700	-.1884	-.1800	-.1749	-.1313
110.000						-.1263	-.1447	-.1677	-.1844	-.2084	-.2129	-.2117	-.2055	-.2136	-.1721
120.000						-.0926								.0000	
130.000						-.2448								-.2730	
140.000						-.4078								-.2600	
150.000						-.3913								-.2341	
160.000						-.3553								-.2234	
170.000						-.3371								-.2190	
180.000						-.3221	-.2928	-.2669	-.2421	-.2254	-.2156	-.2204	-.2184	-.2154	-.2184

X/L	.4900	.4680	.4880	.9030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0830	-.0782	-.0639	-.0780	-.0798	-.0894	-.0787	-.0837	-.0424	-.0082	.0207	.0010	-.0251	-.0521	-.0445
100.000	-.1174	-.1173	-.1052	-.0958	-.0952	-.1122	-.1085	-.0921	-.0808	-.0520	-.0081	-.0021	-.0192	-.0433	-.0808
110.000	.0000	-.1397	-.1325	-.1289	-.1270	-.1353	-.1280	-.1205	-.0986	-.0810	-.0487	-.0370	-.0389	-.0675	.0000
120.000						-.1843								-.1979	
130.000						-.1799								-.1936	
140.000						-.1776								-.1892	
150.000						-.1719								-.1846	
160.000						-.1813								-.1735	
170.000						-.1860								-.1365	
180.000	-.2209	-.2184	-.2122	-.2043	-.1999	-.2001	-.2034	-.2087	-.2120	-.2076	-.1853	-.1528	-.1125	-.0882	-.0155

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1156		
70.000							-.1060	-.0833	.0000
80.000							-.0693	-.1073	-.1223
90.000	-.0852	-.1203	-.1375	-.1593	.0000	.0000	-.0319	-.1171	-.1441
100.000	-.0890	-.1083	-.1463	-.1563	-.1295	.0301			
110.000	-.0915	-.1212	-.1319	-.1374	.1024	.1419			
120.000						.2980			
130.000						.2677			
140.000						-.0379			
150.000						.0871			
160.000						.1553			
170.000						.1232			
180.000	.0369	.0781	.0929	.1122	.1369	.2125			

AMES 60-630 PRESSURE VENTING - INTEG. VEHICLE (REB024)

MACH (10) = 1.499 ALPHA (9) = 8.521

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1070	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3090	.2493	.0811												
70.000	.2858	.2466	.1153												
80.000	.2095	.2201	.1433												
90.000			.1668	.1043	-.1032	-.1489	-.1624	-.1694	-.1582	-.1567	-.1360	-.1110	-.0748	-.0710	-.0871
100.000						-.1475	-.1538	-.1593	-.1599	-.1609	-.1626	-.1643	-.1223	-.1347	-.1052
110.000						-.1381	-.1518	-.1773	-.1864	-.2088	-.2105	-.1982	-.1620	-.1871	-.1453
120.000						-.1098								.0000	
130.000						-.2570								-.3198	
140.000						-.4166								-.2913	
150.000						-.4195								-.2659	
160.000						-.3873								-.2463	
170.000						-.3613								-.2452	
180.000						-.3502	-.3145	-.2916	-.2622	-.2499	-.2399	-.2439	-.2407	-.2414	-.2397

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0887	-.0748	-.0839	-.0792	-.0820	-.0846	-.0857	-.0524	- 0354	-.0143	.0100	-.0189	-.0546	-.0814	-.0800
100.000	-.1048	-.1137	-.1124	-.1042	-.1035	-.1188	-.1027	-.0937	-.0645	-.0605	-.0216	-.0317	-.0504	-.0736	-.0928
110.000	.0000	-.1416	-.1421	-.1461	-.1497	-.1623	-.1508	-.1380	-.1221	-.0990	-.0759	-.0730	-.0753	-.1037	.0000
120.000						-.2564								-.2810	
130.000						-.2220								-.2416	
140.000						-.2122								-.2171	
150.000						-.2015								-.1683	
160.000						-.2042								-.1137	
170.000						-.2084								-.0826	
180.000	-.2385	-.2338	-.2198	-.2115	-.2108	-.2136	-.2143	-.2078	-.1827	-.1478	-.1139	-.0933	-.0722	-.0611	-.0373

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1691		
70.000							-. 376	-.0918	.0000
80.000							-.1047	-.1333	-.1285
90.000	-.1148	-.1491	-.1644	-.1842	.0000	.0000	-.0620	-.1409	-.1545
00.000	-.0980	-.1337	-.1735	-.1853	-.1938	-.0027			
110.000	-.1217	-.1551	-.1873	-.1711	.0494	.1268			
120.000						.2632			
130.000						.2224			
140.000						-.0290			
150.000						.0692			
160.000						.1482			
170.000						.0263			
180.000	-.0104	.0384	.0742	.1082	.1368	.2274			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB025) (17 OCT 73)

REFERENCE DATA

BREF = .0000 SQ. IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = 8.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.250

MACH (1) = 1.749 ALPHA (1) = -8.314

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1829	.1946	.1300												
70.000	.1906	.1789	.2311												
80.000	.2 08	.1717	.2325												
90.000			.1497	.0524	-.1082	-.1764	-.1891	.0000	-.2174	-.2307	-.2237	-.2025	-.1771	-.1609	-.1209
100.000						-.1770	-.2008	-.2134	-.2168	-.2151	-.1957	-.1851	-.1813	-.1808	-.1538
110.000						-.2557	-.2599	-.2673	-.2622	-.2271	.948	-.1884	-.2037	-.2218	-.2541
120.000						-.1524								-.1779	
130.000						-.1547								-.1181	
140.000						-.1513								-.0781	
150.000						-.1325								-.0401	
160.000						-.1293								-.0177	
170.000						-.0948								-.0059	
180.000						-.0796	-.0829	-.0455	-.0396	-.0338	-.0221	-.0182	-.0089	-.0018	.0144

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0744	-.0438	-.0202	-.0035	.0053	.0036	.0084	.0000	.0044	.0078	.0170	.0044	-.0100	-.0195	.0734
100.000	-.1311	-.1088	-.0895	-.0733	-.0643	-.0648	.0049	-.0632	-.0578	-.0814	-.0668	-.0740	-.0783	-.0888	.0019
110.000	-.2411	-.2408	-.2303	-.1474	-.1934	-.1679	-.1435	-.1139	-.0880	-.0687	-.0550	-.0411	-.0302	-.0250	-.0428
120.000						-.1741								-.0377	
130.000						-.1392								-.1229	
140.000						-.1032								-.1330	
150.000						-.0541								-.0941	
160.000						-.0419								-.0694	
170.000						-.0189								-.0535	
180.000	.0184	.0178	.0330	.0078	.0070	.0024	-.0051	-.0086	-.0209	-.0227	-.0181	-.0250	-.0256	-.0295	-.0327

X/L	.7280	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.1102		
90.000							.0845	.0474	.0000
100.000							.0333	-.0361	-.0692
110.000	.0000	.0000	.0000	-.0121	.0233	.0000	-.0145	-.0911	-.0869
120.000	.0000	.0000	-.0359	-.0014	.0298	.0300			
130.000	.0000	-.0056	-.0096	.0489	.0455	.0090			
140.000						-.1217			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (1) = 1.749 ALPHA (1) = -8.314

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.0743			
140.000						.4083			
150.000						.4276			
160.000						.3447			
170.000						.2306			
180.000	-.0398	.0000	.0415	.1255	.3061	.4684			

MACH (1) = 1.750 ALPHA (2) = -8.208

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1430	.1710	.0940												
70.000	.1430	.1638	.1873												
80.000	.1844	.1553	.1990												
90.000			.1730	.0439	-.1166	-.1832	-.1975	.0000	-.2275	-.2424	-.2389	-.2232	-.1958	-.1796	-.1433
100.000						-.1829	-.1795	-.2112	-.2224	-.2269	-.2155	-.2001	-.1936	-.1956	-.1706
110.000						-.2561	-.2609	-.2704	-.2681	-.2378	-.2047	-.1916	-.1993	-.2115	-.2305
120.000						-.1612								-.1819	
130.000						-.1687								-.1376	
140.000						-.1718								-.1040	
150.000						-.1572								-.0648	
160.000						-.1526								-.0398	
170.000						-.1255								-.0355	
180.000						-.1078	-.0976	-.0824	-.0746	-.0661	-.0549	-.0512	-.0381	-.0327	-.0085

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1018	-.0739	-.0500	-.0344	-.0270	-.0225	-.0177	.0000	-.0128	-.0048	.0027	-.0079	-.0180	-.0270	-.0426
100.000	-.1507	-.1208	-.0995	-.0804	-.0685	-.0679	-.0275	-.0618	-.0587	-.0731	-.0625	-.0728	-.0775	-.0754	-.0821
110.000	-.2390	-.2464	-.2430	-.1583	-.2149	-.1913	-.1731	-.1463	-.1210	-.1011	-.0861	-.0728	-.0633	-.0607	-.0585
120.000						-.1901								-.0613	
130.000						-.1553								-.1406	
140.000						-.1198								-.1507	
150.000						-.0892								-.1179	
160.000						-.0691								-.0950	
170.000						-.0486								-.0812	
180.000	-.0082	-.0105	.0057	-.0205	-.0230	-.0301	-.0333	-.0872	-.0503	-.0509	-.0486	-.0550	-.0578	-.0601	-.0618

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (1) = 1.750 ALPHA (2) = -8.206

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0718		
70.000							.0380	.0214	.0000
80.000							.0170	-.0465	-.0783
90.000	.0000	.0003	.0000	-.0344	-.0021	.0000	-.0235	-.1065	-.1188
100.000	.0000	.0000	-.0588	-.0024	-.0024	.0070			
110.000	.0000	-.0785	-.0484	.0345	.0249	-.0103			
120.000						-.1301			
130.000						.0497			
140.000						.3597			
150.000						.3676			
160.000						.2783			
170.000						.1741			
180.000	-.0881	.0000	-.0344	.0864	.2476	.3929			

MACH (1) = 1.750 ALPHA (3) = -4.120

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1978	.1609	.0811												
70.000	.1252	.1544	.1441												
80.000	.1618	.1486	.1730												
90.000			.1850	.0339	-.0975	-.1924	-.2073	.0000	-.2384	-.2536	-.2533	-.2404	-.2144	-.1990	-.1672
100.000						-.1918	-.2064	-.2179	-.2307	-.2404	-.2339	-.2213	-.2076	-.2073	-.1854
110.000						-.2575	-.2639	-.2742	-.2739	-.2499	-.2187	-.2025	-.2044	-.2081	-.2258
120.000						-.1767								-.1854	
130.000						-.1781								-.1496	
140.000						-.1887								-.1180	
150.000						-.1798								-.0865	
160.000						-.1792								-.0671	
170.000						-.1555								-.0512	
180.000						-.1375	-.1324	-.1187	-.1098	-.0995	-.0853	-.0759	-.0646	-.0549	-.0421

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1314	-.0972	-.0756	-.0628	-.0535	-.0489	-.0455	.0000	-.0354	-.0270	-.0149	-.0218	-.0310	-.0391	.9672
100.000	-.1715	-.1453	-.1177	-.0978	-.0842	-.0802	-.0455	-.0688	-.0613	-.0706	-.0616	-.0682	-.0769	-.0731	.2391
110.000	-.2368	-.2484	-.2530	-.1751	-.2370	-.2197	-.1894	-.1614	-.1534	-.1332	-.1170	-.1028	-.0953	-.0887	-.0021
120.000						-.2052								-.0838	
130.000						-.1713								-.1576	
140.000						-.1372								-.1706	
150.000						-.1130								-.1406	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (1) = 1.750 ALPHA (3) = -4.120

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0986								-.1199	
170.000						-.0801								-.1083	
180.000	-.0333	-.0370	-.0256	-.0478	-.0518	-.0677	-.0798	-.1669	-.0801	-.0824	-.0769	-.0850	-.0870	-.0913	-.0805

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0352		
70.000							.0123	.0025	.0000
80.000							.0036	-.0576	-.0833
90.000	.0000	.0000	.0000	-.0895	.0158	.0000	-.0271	-.1154	-.1373
100.000	.0000	.0000	-.0963	-.0654	-.0388	-.0142			
110.000	.0000	-.1125	-.0942	-.0320	.0074	-.0279			
120.000						-.1340			
130.000						.0273			
140.000						.3172			
150.000						.3148			
160.000						.2184			
170.000						.1196			
180.000	-.1215	.0000	-.0176	.0684	.1915	.3096			

MACH (1) = 1.750 ALPHA (4) = -2.035

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1232	.1646	.0385												
70.000	.1103	.1432	.1094												
80.000	.1389	.1460	.1469												
90.000			.1818	.0231	-.1329	-.1989	-.2137	.0000	-.2454	-.2603	-.2625	-.2528	-.2282	-.2126	-.1884
100.000						-.1981	-.2137	-.2254	-.2374	-.2500	-.2483	-.2328	-.2177	-.2154	-.1938
110.000						-.2581	-.2640	-.2751	-.2765	-.2571	-.2280	-.2117	-.2100	-.2154	-.2243
120.000						-.1889								-.1896	
130.000						-.1918								-.1572	
140.000						-.1986								-.1313	
150.000						-.1958								-.1009	
160.000						-.1975								-.0816	
170.000						-.1812								-.0671	
180.000						-.1618	-.1592	-.1460	-.1377	-.1212	-.1020	-.0910	-.0731	-.0634	-.0546

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (1) = 1.750 ALPHA (4) = -2.035

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1546	-.1259	-.0983	-.0838	-.0745	-.0688	-.0641	.0000	-.0529	-.0431	-.0298	-.0339	-.0428	-.0494	-.0833
100.000	-.1890	-.1699	-.1421	-.1157	-.1029	-.0944	-.0771	-.0808	-.0708	-.0774	-.0615	-.0661	-.0728	-.0710	-.0816
110.000	-.2344	-.2463	-.2569	-.1870	-.2475	-.2381	-.2256	-.2062	-.1805	-.1592	-.1413	-.1275	-.1194	-.1151	-.1129
120.000						-.2182								-.1004	
130.000						-.1878								-.1632	
140.000						-.1601								-.1848	
150.000						-.1353								-.1592	
160.000						-.1223								-.1413	
170.000						-.1074								-.1309	
180.000	-.0580	-.0848	-.0571	-.0779	-.0841	-.0909	-.0955	-.1684	-.1059	-.1062	-.1036	-.1068	-.1114	-.1140	-.1142

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0148		
70.000							.0011	-.0115	.0000
80.000							-.0022	-.0619	-.0846
90.000	.0000	.0000	.0000	-.0825	-.0274	.0000	-.0213	-.1117	-.1367
100.000	.0000	.0000	-.0860	-.0572	-.0356	-.0216			
110.000	.0000	-.0863	-.0646	.0028	.0008	-.0315			
120.000						-.1260			
130.000						.0153			
140.000						.2786			
150.000						.2691			
160.000						.1685			
170.000						.0792			
180.000	-.1008	.0000	-.0320	.0273	.1429	.2487			

MACH (1) = 1.750 ALPHA (5) = .071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1109	.1417	.0165												
70.000	.0997	.1297	.0777												
80.000	.1183	.1289	.1154												
90.000			.1352	.0176	-.1346	-.2043	-.2197	.0000	-.2520	-.2671	-.2691	-.2629	-.2345	-.2223	-.2010
100.000						-.2038	-.2229	-.2332	-.2483	-.2594	-.2591	-.2449	-.2260	-.2229	-.2007
110.000						-.2546	-.2651	-.2766	-.2800	-.2640	-.2377	-.2163	-.2152	-.2194	-.2248
120.000						-.2006								-.1959	
130.000						-.2089								-.1669	
140.000						-.2109								-.1478	
150.000						-.2095								-.1237	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (1) = 1.750 ALPHA (5) = .071

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.2120								-.1006	
170.000						-.2012								-.0881	
180.000						-.1835	-.1855	-.1749	-.1575	-.1361	-.1126	-.1015	-.0884	-.0839	-.0805

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1774	-.1605	-.1299	-.1097	-.0975	-.0910	-.0841	.0000	-.0677	-.0527	-.0397	-.0408	-.0480	-.0535	-.0636
100.000	-.1990	-.1909	-.1710	-.1475	-.1273	-.1171	-.0959	-.0983	-.0847	-.0835	-.0662	-.0650	-.0679	-.0627	-.0742
110.000	-.2315	-.2423	-.2506	-.2014	-.2483	-.2423	-.2350	-.2211	-.2030	-.1831	-.1653	-.1486	-.1371	-.1313	-.1277
120.000						-.2301								-.1083	
130.000						-.1995								-.1633	
140.000						-.1753								-.1982	
150.000						-.1562								-.1766	
160.000						-.1470								-.1610	
170.000						-.1366								-.1518	
180.000	-.0858	-.0924	-.0893	-.1080	-.1162	-.1231	-.1257	-.2012	-.1288	-.1288	-.1247	-.1290	-.1348	-.1371	-.1304

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0006		
70.000							-.0080	-.0302	.0000
80.000							-.0053	-.0669	-.0872
90.000	.0000	.0000	.0000	-.0978	-.0345	.0000	-.0173	-.0951	-.1252
100.000	.0000	.0000	-.0874	-.0690	-.0296	-.0110			
110.000	.0000	-.0759	-.0490	-.0071	-.0017	-.0223			
120.000						-.0967			
130.000						.0141			
140.000						.2295			
150.000						.2121			
160.000						.1251			
170.000						.0351			
180.000	-.1049	.0000	-.0310	-.0033	.0995	.2064			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (1) = 1.749 ALPHA (6) = 2.218

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0949	.1278	-.0024												
70.000	.0852	.1232	.0505												
80.000	.0948	.1226	.0869												
90.000			.1115	.0148	-.1221	-.2110	-.2241	.0000	-.2553	-.2690	-.2684	-.2616	-.2361	-.2221	-.2068
100.000						-.2110	-.2256	-.2384	-.2516	-.2639	-.2624	-.2507	-.2301	-.2261	-.2028
110.000						-.2508	-.2599	-.2716	-.2747	-.2627	-.2376	-.2238	-.2207	-.2244	-.2253
120.000						-.2090								-.2037	
130.000						-.2256								-.1798	
140.000						-.2236								-.1673	
150.000						-.2159								-.1476	
160.000						-.2233								-.1311	
170.000						-.2182								-.1175	
180.000						-.1987	-.1953	-.1844	-.1664	-.1436	-.1276	-.1195	-.1115	-.1129	-.1135

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1940	-.1874	-.1709	-.1470	-.1277	-.1101	-.1029	.0000	-.0709	-.0567	-.0409	-.0423	-.0484	-.0562	-.0683
100.000	-.1991	-.1971	-.1914	-.1766	-.1544	-.1382	-.1153	-.1142	-.0945	-.0893	-.0625	-.0593	-.0593	-.0553	-.0645
110.000	-.2226	-.2232	-.2289	-.2044	-.2326	-.2238	-.2177	-.2068	-.1981	-.1880	-.1730	-.1563	-.1413	-.1338	-.1242
120.000						-.2340								-.1089	
130.000						-.2128								-.1441	
140.000						-.1924								-.1995	
150.000						-.1753								-.1906	
160.000						-.1687								-.1791	
170.000						-.1577								-.1707	
180.000	-.1189	-.1263	-.1209	-.1376	-.1425	-.1496	-.1502	-.1987	-.1525	-.1514	-.1485	-.1534	-.1563	-.1617	-.1407

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0138		
70.000							-.0225	-.0461	.0000
80.000							-.0204	-.0730	-.0922
90.000	.0000	.0000	.0000	-.0963	-.0445	.0000	-.0253	-.0894	-.1122
100.000	.0000	.0000	-.0932	-.0787	-.0176	.0286			
110.000	.0000	-.0897	-.0458	-.0209	-.0025	-.0160			
120.000						-.0560			
130.000						.0158			
140.000						.1669			
150.000						.1759			
160.000						.0909			
170.000						.0150			
180.000	-.0900	.0000	-.0461	-.0214	.0700	.2036			

AMES 66-630 PRESSURE VENTING - INTEG VEHICLE (REB025)

MACH (1) = 1.749 ALPHA (7 4.323

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0731	.1011	-.0207												
70.000	.0679	.1117	.0299												
80.000	.0782	.1111	.0674												
90.000			.0985	-.0018	-.1395	-.2146	-.2264	.0000	-.2561	-.2695	-.2701	-.2618	-.2420	-.2297	-.2167
100.000						-.2126	-.2292	-.2407	-.2541	-.2678	-.2701	-.2590	-.2380	-.2317	-.2087
110.000						-.2463	-.2578	-.2695	-.2732	-.2664	-.2510	-.2346	-.2292	-.2309	-.2266
120.000						-.2095								-.2121	
130.000						-.2306								-.1939	
140.000						-.2312								-.1936	
150.000						-.2178								-.1706	
160.000						-.2206								-.1695	
170.000						-.2183								-.1450	
180.000						-.2069	-.2084	-.1961	-.1852	-.1698	-.1544	-.1479	-.1425	-.1425	-.1467

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2078	-.1993	-.1777	-.1501	-.1282	-.1109	-.0994	.0000	-.0645	-.0475	-.0356	-.0408	-.0480	-.0552	-.0691
100.000	-.2081	-.2061	-.2007	-.1825	-.1555	-.1345	-.1089	-.1031	-.0806	-.0731	-.0498	-.0498	-.0486	-.0469	-.0626
110.000	-.2217	-.2177	-.2180	-.2013	-.2135	-.1964	-.1862	-.1680	-.1553	-.1449	-.1247	-.1126	-.0956	-.0881	-.0834
120.000						-.2337								-.1028	
130.000						-.2179								-.1172	
140.000						-.2032								-.1584	
150.000						-.1864								-.1924	
160.000						-.1801								-.1965	
170.000						-.1746								-.1927	
180.000	-.1495	-.1561	-.1467	-.1601	-.1623	-.1663	-.1671	-.1668	-.1726	-.1735	-.1714	-.1772	-.1801	-.1847	-.1015

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0310		
70.000							-.0373	-.0620	.0000
80.000							-.0431	-.0855	-.1050
90.000	.0000	.0000	.0000	-.0678	-.0552	.0000	-.0373	-.0968	-.1203
100.000	.0000	.0000	-.1042	-.0798	-.0034	.0277			
110.000	.0000	-.0784	-.0639	.0084	.0438	-.0006			
120.000						-.0129			
130.000						.0307			
140.000						.1981			
150.000						.1056			
160.000						.0528			
170.000						.0163			
180.000	-.0626	.0000	-.0431	.0109	.0506	.1556			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (1) = 1.750 ALPHA (6) = 6.407

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0402	.0705	-.0398												
70.000	.0356	.0791	.0079												
80.000	.0479	.0831	.0468												
90.000			.0849	-.0258	-.1501	-.2167	-.2273	.0000	-.2598	-.2741	-.2753	-.2704	-.2550	-.2451	-.2309
100.000						-.2153	-.2330	-.2444	-.2610	-.2750	-.2804	-.2755	-.2527	-.2442	-.2198
110.000						-.2475	-.2601	-.2724	-.2773	-.2761	-.2673	-.2490	-.2408	-.2434	-.2328
120.000						-.2115								-.2235	
130.000						-.2413								-.2067	
140.000						-.2444								-.2070	
150.000						-.2310								-.1902	
160.000						-.2347								-.1908	
170.000						-.2327								-.1720	
180.000						-.2267	-.2290	-.2261	-.2178	-.2061	-.1924	-.1814	-.1760	-.1726	-.1709

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2158	-.1933	-.1606	-.1362	-.1172	-.1004	-.0913	.0000	-.0584	-.0460	-.0328	-.0391	-.0461	-.0553	-.0650
100.000	-.2194	-.2132	-.1927	-.1592	-.1311	-.1126	-.0965	-.0855	-.0656	-.0570	-.0388	-.0388	-.0417	-.0432	-.0571
110.000	-.2246	-.2212	-.2169	-.1831	-.1871	-.1604	-.1464	-.1279	-.1109	-.0956	-.0766	-.0651	-.0541	-.0524	-.0546
120.000						-.2249								-.0931	
130.000						-.2228								-.1034	
140.000						-.2101								-.1222	
150.000						-.1971								-.1600	
160.000						-.1931								-.1946	
170.000						-.1870								-.2084	
180.000	-.1717	-.1766	-.1663	-.1771	-.1754	-.1810	-.1830	-.1372	-.1882	-.1911	-.1897	-.1957	-.1995	-.2035	-.0790

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0417		
70.000							-.0549	-.0724	.0000
80.000							-.0639	-.0971	-.1160
90.000	.0000	.0000	.0000	-.0395	-.0606	.0000	-.0541	-.1075	-.1286
100.000	.0000	.0000	-.0987	-.0752	-.0099	.0090			
110.000	.0000	-.0806	-.0801	.0185	.0959	.0185			
120.000						.0182			
130.000						.0873			
140.000						.1804			
150.000						.0876			
160.000						.0389			
170.000						.0411			
180.000	-.0557	.0100	-.0587	.0100	.0438	.1227			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REG025)

MACH (1) = 1.747 ALPHA (9) = 8.460

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0218	.0596	-.0605												
70.000	.0104	.0682	-.0122												
80.000	.0144	.0627	.0287												
90.000			.0544	.0010	-.1405	-.2245	-.2412	.0000	-.2710	-.2850	-.2858	-.2835	-.2741	-.2679	-.2525
100.000						-.2234	-.2418	-.2530	-.2695	-.2841	-.2932	-.2932	-.2747	-.2656	-.2332
110.000						-.2508	-.2658	-.2804	-.2838	-.2878	-.2852	-.2718	-.2565	-.2562	-.2411
120.000						-.2234								-.2326	
130.000						-.2560								-.2178	
140.000						-.2634								-.2170	
150.000						-.2500								-.2059	
160.000						-.2511								-.2036	
170.000						-.2548								-.1906	
180.000						-.2517	-.2613	-.2572	-.2510	-.2410	-.2278	-.2107	-.2025	-.1960	-.1888

X/L	.4300	.4480	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2247	-.1882	-.1473	-.1239	-.1072	-.0935	-.0808	.0000	-.0470	-.0335	-.0292	-.0344	-.0436	-.0520	.0011
100.000	-.2298	-.2217	-.1831	-.1306	-.1140	-.0941	-.0795	-.0707	-.0528	-.0427	-.0330	-.0335	-.0361	-.0399	-.0413
110.000	-.2365	-.2331	-.2212	-.1640	-.1572	-.1291	-.1110	-.0909	-.0704	-.0557	-.0433	-.0359	-.0324	-.0359	-.0427
120.000						-.2001								-.0883	
130.000						-.2296								-.1033	
140.000						-.2163								-.1105	
150.000						-.2042								-.1296	
160.000						-.1976								-.1595	
170.000						-.1941								-.2019	
180.000	-.1922	-.1910	-.1825	-.1893	-.1865	-.1883	-.1485	-.0952	-.1958	-.2002	-.2071	-.2132	-.2189	-.2201	-.0430

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0517		
70.000							-.0711	-.0867	.0000
80.000							-.0810	-.1114	-.1257
90.000	.0000	.0000	.0000	-.0408	-.0528	.0000	-.0730	-.1193	-.1418
100.000	.0000	.0000	-.0970	-.0789	.0017	-.0182			
110.000	.0000	-.0838	-.0868	-.0553	.0933	-.0147			
120.000						.0590			
130.000						.1325			
140.000						.1493			
150.000						.0633			
160.000						.0543			
170.000						.0753			
180.000	-.0515	.0000	-.0849	-.0123	-.0012	.0198			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (2) = 2.017 ALPHA (1) = -7.644

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2720	.3010	.3190	.3580	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1605	.1754	.0806												
70.000	.1708	.1606	.1251												
80.000	.1858	.1540	.1321												
90.000			.1170	.0375	-.0388	-.1022	-.0992	.0000	-.1226	-.1413	-.1440	-.1407	-.1232	-.1076	-.0975
100.000						-.1004	-.2008	-.1677	-.1271	-.1175	-.1133	-.1106	-.1082	-.1184	-.1229
110.000						-.2167	-.2140	-.2140	-.2095	-.1893	-.1542	-.1225	-.1127	-.1172	-.1312
120.000						-.1088								-.1160	
130.000						-.1046								-.0960	
140.000						-.1019								-.0604	
150.000						-.0857								-.0275	
160.000						-.0812								-.0090	
170.000						-.0835								-.0093	
180.000						-.0494	-.0298	-.0183	-.0088	-.0043	.0030	.0039	.0051	.0045	.0078

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0825	-.0891	-.0523	-.0377	-.0325	-.0317	-.0095	.0000	-.0220	-.0147	-.0013	.0005	.0011	-.0004	-.0004
100.000	-.1183	-.1133	-.1046	-.0879	-.0771	-.0783	-.0612	-.0813	-.0861	-.0913	-.0846	-.0834	-.0804	-.0725	-.0526
110.000	-.1321	-.1327	-.1354	-.1327	-.1270	-.1202	-.1117	-.0883	-.0877	-.0749	-.0615	-.0491	-.0375	-.0287	-.0255
120.000						-.1116								-.0560	
130.000						-.0950								-.1087	
140.000						-.0859								-.0767	
150.000						-.0635								-.0570	
160.000						-.0415								-.0506	
170.000						-.0223								-.0387	
180.000	.0071	.0038	.0123	.0033	-.0009	-.0098	-.0116	-.0773	-.0199	-.0196	-.0150	-.0202	-.0162	-.0177	-.0252

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0659		
70.000							.0659	.0587	.0000
80.000							.0727	-.0014	-.0371
90.000	.0000	.0000	.0000	-.0160	.0099	.0000	.0298	-.0836	-.0936
100.000	.0000	.0000	-.0218	-.0111	.0339	.0347			
110.000	.0000	-.0512	-.0612	.0557	.0561	.0178			
120.000						-.0795			
130.000						.1068			
140.000						.3672			
150.000						.4072			
160.000						.2931			
170.000						.2201			
180.000	-.0307	.0000	-.0036	.0585	.2699	.4364			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (2) = 2.017 ALPHA (2) = -5.680

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1639	.1534	.0482												
70.000	.1537	.1426	.0923												
80.000	.1639	.1563	.1055												
90.000			.0995	.0287	-.0141	-.1032	-.1074	.0000	-.1343	-.1519	-.1564	-.1537	-.1402	-.1241	-.1122
100.000						-.1029	-.1812	-.1417	-.1178	-.1274	-.1316	-.1298	-.1253	-.1265	-.1271
110.000						-.2163	-.2153	-.2147	-.2126	-.1971	-.1618	-.1298	-.1214	-.1256	-.1330
120.000						-.1212								-.1253	
130.000						-.1218								-.1146	
140.000						-.1236								-.0821	
150.000						-.1095								-.0547	
160.000						-.1050								-.0348	
170.000						-.0945								-.0291	
180.000						-.0763	-.0610	-.0496	-.0407	-.0344	-.0260	-.0274	-.0277	-.0265	-.0226

X/L	.4500	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0988	-.0894	-.0893	-.0556	-.0478	-.0452	-.0422	.0000	-.0370	-.0334	-.0170	-.0106	-.0127	-.0121	.0961
100.000	-.1247	-.1217	-.1074	-.0916	-.0836	-.0756	-.0470	-.0755	-.0719	-.0864	-.0779	- 0754	-.0712	-.0691	.0205
110.000	-.1333	-.1392	-.1455	-.1458	-.1410	-.1362	-.1200	-.0952	-.1134	-.1043	-.0903	-.0751	-.0615	-.0539	-.0348
120.000						-.1261								-.0827	
130.000						-.1028								-.1242	
140.000						-.0964								-.0957	
150.000						-.0819								-.0754	
160.000						-.0670								-.0670	
170.000						-.0512								-.0606	
180.000	-.0220	-.0217	-.0149	-.0244	-.0288	-.0434	-.0494	-.0888	-.0491	-.0500	-.0451	-.0470	-.0421	-.0448	-.0414

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0343		
70.000							.0351	.0252	.0000
80.000							.0425	-.0197	-.0501
90.000	.0100	.0000	.0000	-.0388	-.0056	.0000	.0081	-.0679	-.1049
100.000	.0000	.0000	-.0417	-.0414	.0027	.0066			
110.000	.0090	-.0630	-.0754	.0248	.0260	-.0016			
120.000						-.0945			
130.000						.0887			
140.000						.3384			
150.000						.3589			
160.000						.2478			
170.000						.1761			
180.000	-.0918	.0000	-.0241	.0297	.2159	.3717			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (2) = 2.016 ALPHA (3) = -3.630

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.1468	.1309	.0261												
70.000	.1459	.1273	.0704												
80.000	.1516	.1255	.0827												
90.000			.0842	.0234	-.0355	-.1010	-.1094	.0000	-.1462	-.1633	-.1672	-.1654	-.1523	-.1380	-.1201
100.000						-.1019	-.1349	-.1154	-.1247	-.1436	-.1504	-.1498	-.1421	-.1415	-.1334
110.000						-.2105	-.2094	-.2154	-.2180	-.2043	-.1717	-.1413	-.1401	-.1410	-.1374
120.000						-.1327								-.1404	
130.000						-.1390								-.1267	
140.000						-.1405								-.1011	
150.000						-.1297								-.0737	
160.000						-.1276								-.0743	
170.000						-.1193								-.0550	
180.000						-.0995	-.0878	-.0798	-.0762	-.0664	-.0571	-.0526	-.0511	-.0550	-.0508

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1142	-.1056	-.0948	-.0793	-.0898	-.0648	-.0606	.0000	-.0515	-.0475	-.0303	-.0257	-.0245	-.0281	.0775
100.000	-.1291	-.1280	-.1177	-.1073	-.0933	-.0868	-.0830	-.0772	-.0730	-.0857	-.0754	-.0726	-.0890	-.0851	.0068
110.000	-.1436	-.1472	-.1319	-.1564	-.1540	-.1507	-.1287	-.1054	-.1351	-.1257	-.1150	-.1026	-.0887	-.0817	-.0439
120.000						-.1385								-.1044	
130.000						-.1126								-.1390	
140.000						-.0972								-.1147	
150.000						-.0930								-.0935	
160.000						-.0884								-.0823	
170.000						-.0724								-.0811	
180.000	-.0481	-.0508	-.0431	-.0523	-.0558	-.0666	-.0721	-.1023	-.0745	-.0733	-.0681	-.0717	-.0869	-.0687	-.0838

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0053		
70.000							.0070	-.0050	.0000
80.000							.0144	-.0360	-.0826
90.000	.0000	.0000	.0000	-.0543	-.0203	.0000	-.0053	-.0775	-.1128
100.000	.0000	.0000	-.0818	-.0586	-.0191	-.0127			
110.000	.0000	-.0879	-.0753	.0039	.0070	-.0219			
120.000						-.1085			
130.000						.0814			
140.000						.2949			
150.000						.3023			
160.000						.1970			
170.000						.1392			
180.000	-.0725	.0000	-.0396	.0158	.1693	.3006			

DATE 26 MAR 74 TABULATED SOURCE DATA - 1A29/0063

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (2) = 2.010 ALPHA (4) = -1.500

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1250	.1064	.0086												
70.000	.1262	.1094	.0473												
80.000	.1277	.1105	.0689												
90.000			.0674	.0668	-.0295	-.1032	-.1202	.0000	-.1543	-.1705	-.1759	-.1765	-.1640	-.1503	-.1396
100.000						-.1038	-.1103	-.1229	-.1415	-.1585	-.1663	-.1657	-.1554	-.1533	-.1387
110.000						-.1961	-.1981	-.2053	-.2092	-.2005	-.1735	-.1512	-.1524	-.1524	-.1387
120.000						-.1404								-.1324	
130.000						-.1521								-.1309	
140.000						-.1563								-.1309	
150.000						-.1467								-.0922	
160.000						-.1446								-.0922	
170.000						-.1398								-.0749	
180.000						-.1215	-.1091	-.1067	-.1016	-.0953	-.0852	-.0821	-.0776	- 0745	-.0722

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1277	-.1219	-.1115	-.0993	-.0889	-.0826	-.0833	.0000	-.0675	-.0611	-.0447	-.0371	-.0368	-.0374	.1021
100.000	-.1345	-.1333	-.1273	-.1199	-.1105	-.1006	-.0839	-.0900	-.0821	-.0903	-.0793	-.0720	-.0690	-.0650	.0104
110.000	-.1479	-.1514	-.1565	-.1604	-.1613	-.1607	-.1197	-.1140	-.1475	-.1398	-.1320	-.1199	.1077	-.1020	-.0467
120.000						-.1470								-.1163	
130.000						-.1258								-.1481	
140.000						-.1076								-.1272	
150.000						-.1008								-.1084	
160.000						-.1006								-.0950	
170.000						-.0936								-.0929	
180.000	-.0722	-.0746	-.0683	-.0758	-.0798	-.0894	-.0912	-.1164	-.0924	-.0918	-.0841	-.0859	-.0832	-.0838	-.0758

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0135		
70.000							-.0109	-.0249	.0000
80.000							-.0048	-.0488	-.0726
90.000	.0000	.0000	.0000	-.0684	-.0309	.0000	-.0160	-.0789	-.1139
100.000	.0000	.0000	-.0750	-.0846	-.0323	-.0264			
110.000	.0000	-.0730	-.0739	-.0089	-.0037	-.0335			
120.000						-.1093			
130.000						.0457			
140.000						.2607			
150.000						.2498			
160.000						.1552			
170.000						.1016			
180.000	-.0848	.0000	-.0508	.0021	.1287	.2439			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (2) = 2.010 ALPHA (9) = .657

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0390	.1260	.1640	.2030	.2420	.2640	.2830	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1042	.0815	-.0024												
70.000	.1042	.0881	.0307												
80.000	.1122	.0901	.0490												
90.000			.0514	.0410	-.0351	-.1159	-.1305	.0000	-.1620	-.1786	-.1817	-.1859	-.1768	-.1656	-.1573
100.000						-.1162	-.1233	-.1368	-.1549	-.1701	-.1769	-.1787	-.1757	-.1674	-.1559
110.000						-.1773	-.1850	-.1945	-.1981	-.1908	-.1757	-.1597	-.1508	-.1538	-.1556
120.000						-.1499								-.1401	
130.000						-.1639								-.1262	
140.000						-.1737								-.1235	
150.000						-.1636								-.1129	
160.000						-.1636								-.1034	
170.000						-.1591								-.1310	
180.000						-.1415	-.1325	-.1299	-.1290	-.1233	-.1138	-.1095	-.1049	-.1007	-.0975

X/L	.4900	.5090	.5460	.5650	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1452	-.1390	-.1275	-.1147	-.1058	-.1026	-.1038	.0000	-.0881	-.0797	-.0818	-.0561	-.0549	-.0555	.1104
100.000	-.1449	-.1444	-.1387	-.1328	-.1278	-.1138	-.1032	-.1053	-.0993	-.0999	-.0881	-.0857	-.0730	-.0688	.0053
110.000	-.1530	-.1582	-.1592	-.1613	-.1607	-.1634	-.1231	-.1267	-.1551	-.1512	-.1427	-.1325	-.1219	-.1156	-.0521
120.000						-.1568								-.1282	
130.000						-.1355								-.1521	
140.000						-.1204								-.1373	
150.000						-.1125								-.1228	
160.000						-.1141								-.1116	
170.000						-.1141								-.1083	
180.000	-.0990	-.0990	-.0991	-.1002	-.1017	-.1129	-.1153	-.1270	-.1101	-.1063	-.1005	-.1029	-.1017	-.1047	-.0956

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0293		
70.000							-.0287	-.0422	.0000
80.000							-.0204	-.0810	-.0893
90.000	.0000	.0000	.0000	-.0897	-.0442	.0000	-.0287	-.0802	-.1133
100.000	.0000	.0000	-.0917	-.0749	-.0340	-.0378			
110.000	.0000	-.0821	-.0734	-.0229	-.0178	-.0439			
120.000						-.1045			
130.000						.0322			
140.000						.2141			
150.000						.1526			
160.000						.1128			
170.000						.0711			
180.000	-.0993	.0000	-.0811	-.0203	.0036	.1960			

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (2) = 2.019 ALPHA (8) = 2.757

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0832	.0580	.0028												
70.000	.0868	.0693	.0206												
80.000	.0990	.0749	.0363												
90.000			.0429	.0426	-.0447	-.1266	-.1378	.0000	-.1693	-.1838	-.1877	-.1888	-.1808	-.1713	-.1643
100.000						-.1233	-.1396	-.1518	-.1663	-.1805	-.1879	-.1915	-.1823	-.1781	-.1592
110.000						-.1663	-.1776	-.1853	-.1903	-.1903	-.1853	-.1731	-.1628	-.1637	-.1598
120.000						-.1544								-.1468	
130.000						-.1764								-.1454	
140.000						-.1835								-.1333	
150.000						-.1770								-.1327	
160.000						-.1773								-.1321	
170.000						-.1743								-.1200	
180.000						-.1574	-.1547	-.1535	-.1512	-.1470	-.1405	-.1336	-.1268	-.1188	-.1156

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1539	-.1508	-.1462	-.1394	-.1326	-.1270	-.1185	.0000	-.1008	-.0897	-.0702	-.0678	-.0657	-.0657	.1730
100.000	-.1510	-.1509	-.1456	-.1429	-.1400	-.1291	-.1203	-.1224	-.1143	-.1116	-.0951	-.0906	-.0822	-.0765	.0188
110.000	-.1559	-.1562	-.1565	-.1568	-.1586	-.1609	-.1258	-.1360	-.1546	-.1507	-.1453	-.1401	-.1317	-.1278	-.0454
120.000						-.1609								-.1368	
130.000						-.1432								-.1618	
140.000						-.1297								-.1513	
150.000						-.1206								-.1401	
160.000						-.1221								-.1308	
170.000						-.1230								-.1272	
180.000	-.1176	-.1196	-.1131	-.1176	-.1193	-.1209	-.1264	-.1351	-.1270	-.1252	-.1218	-.1236	-.1218	-.1215	-.0933

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0442		
70.000							-.0413	-.0558	.0000
80.000							-.0337	-.0692	-.0860
90.000	.0000	.0000	.0000	-.0987	-.0529	.0000	-.0339	-.0806	-.1087
100.000	.0000	.0000	-.1004	-.0888	-.0260	-.0342			
110.000	.0000	-.0870	-.0711	-.0286	-.0157	-.0445			
120.000						-.0837			
130.000						.0282			
140.000						.1621			
150.000						.1468			
160.000						.0657			
170.000						.0338			
180.000	-.1106	.0000	-.0696	-.0230	.0522	.1279			

AMES 00-030 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (2) = 2.020 ALPHA (7) = 4.004

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0545	.0292	-.0035												
70.000	.0858	.0408	.0176												
80.000	.0830	.0479	.0241												
90.000			.0244	.0205	-.0409	-.1333	-.1433	.0000	-.1721	-.1866	-.1908	-.1905	-.1858	-.1787	-.1731
100.000						-.1336	-.1448	-.1569	-.1715	-.1860	-.1952	-.1970	-.1896	-.1640	-.1668
110.000						-.1583	-.1694	-.1819	-.1863	-.1928	-.1925	-.1852	-.1760	-.1852	-.1660
120.000						-.1565								-.1592	
130.000						-.1847								-.1364	
140.000						-.1963								-.1361	
150.000						-.1894								-.1355	
160.000						-.1883								-.1358	
170.000						-.1883								-.1355	
180.000						-.1713	-.1673	-.1661	-.1649	-.1617	-.1563	-.1530	-.1465	-.1355	-.1373

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1645	-.1800	-.1658	-.1473	-.1381	-.1275	-.1266	.0000	-.0977	-.0827	-.0656	-.0607	-.0637	-.0652	.3017
100.000	-.1583	-.1564	-.1532	-.1502	-.1455	-.1387	-.1242	-.1230	-.1071	-.1013	-.0829	-.0739	-.0673	-.0634	.0595
110.000	-.1800	-.1558	-.1547	-.1555	-.1461	-.1579	-.1251	-.1320	-.1431	-.1374	-.1271	-.1202	-.1118	-.1088	-.0215
120.000						-.1623								-.1181	
130.000						-.1510								-.1475	
140.000						-.1398								-.1529	
150.000						-.1332								-.1460	
160.000						-.1338								-.1397	
170.000						-.1347								-.1355	
180.000	-.1337	-.1358	-.1307	-.1349	-.1383	-.1359	-.1389	-.1323	-.1392	-.1347	-.1298	-.1325	-.1319	-.1340	-.0763

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0525		
70.000							-.0505	-.0853	.0000
80.000							-.0456	-.0758	-.0940
90.000	.0000	.0000	.0000	-.1025	-.0871	.0000	-.0380	-.0801	-.1045
100.000	.0000	.0000	-.1059	-.0957	-.0207	-.0108			
110.000	.0000	-.0685	-.0742	-.0182	.0022	-.0311			
120.000						-.0374			
130.000						.0525			
140.000						.1557			
150.000						.1048			
160.000						.0443			
170.000						.0211			
180.000	-.0929	.0000	-.0683	-.0268	.0220	.1102			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (2) = 2.020 ALPHA (8) = 6.895

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0107	.0077	-.0104												
70.000	.0315	.0119	.0169												
80.000	.0526	.0161	.0241												
90.000			.0187	.0164	-.0330	-.1417	-.1539	.0000	-.1801	-.1929	-.1961	-.1970	-.1944	-.1903	-.1897
100.000						-.1411	-.1530	-.1652	-.1798	-.1943	-.2021	-.2062	-.1932	-.1971	-.1799
110.000						-.1405	-.1730	-.1848	-.1908	-.1991	-.2021	-.1988	-.1908	-.1870	-.1755
120.000						-.1414								-.1654	
130.000						-.1939								-.1456	
140.000						-.2067								-.1450	
150.000						-.2023								-.1450	
160.000						-.2017								-.1448	
170.000						-.2008								-.1448	
180.000						-.1853	-.1857	-.1839	-.1816	-.1786	-.1780	-.1719	-.1684	-.1637	-.1563

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1805	-.1737	-.1643	-.1510	-.1356	-.1223	-.1215	.0000	-.0875	-.0740	-.0602	-.0599	-.0611	-.0650	.1850
100.000	-.1731	-.1696	-.1660	-.1587	-.1492	-.1226	-.1170	-.1140	-.0953	-.0860	-.0701	-.0656	-.0593	-.0596	.0237
110.000	-.1690	-.1658	-.1646	-.1649	-.1637	-.1598	-.1170	-.1200	-.1275	-.1158	-.1041	-.0954	-.0845	-.0794	-.0366
120.000						-.1687								-.1020	
130.000						-.1600								-.1266	
140.000						-.1494								-.1471	
150.000						-.1449								-.1519	
160.000						-.1461								-.1498	
170.000						-.1458								-.1513	
180.000	-.1554	-.1554	-.1486	-.1525	-.1501	-.1464	-.1446	-.1215	-.1458	-.1437	-.1423	-.1459	-.1477	-.1501	-.0609

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0582		
70.000							-.0622	-.0708	.0000
80.000							-.0580	-.0839	-.0992
90.000	.0000	.0000	.0000	-.1128	-.0858	.0000	-.0474	-.0850	-.1075
100.000	.0000	.0000	-.1097	-.1051	-.0339	-.0081			
110.000	.0000	-.0901	-.0858	-.0213	.0330	-.0192			
120.000						.0022			
130.000						.0859			
140.000						.1450			
150.000						.1178			
160.000						.0378			
170.000						.0222			
180.000	-.0704	.0000	-.0719	-.0535	-.0115	.0748			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB025)

MACH (2) = 2.019 ALPHA (9) = *.015

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0022	.0185	-.0180												
70.000	.0114	.0176	.0170												
80.000	.0279	.0238	.0362												
90.000			.0413	.0416	-.0762	-.1532	-.1644	.0000	-.1892	-.1990	-.2019	-.2028	-.2036	-.2015	-.2050
100.000						-.1524	-.1600	-.1724	-.1877	-.2010	-.2087	-.2134	-.2100	-.2024	-.1942
110.000						-.1662	-.1768	-.1892	-.1951	-.2060	-.2111	-.2094	-.2086	-.2000	-.1877
120.000						-.1441								-.1760	
130.000						-.1881								-.1575	
140.000						-.2129								-.1560	
150.000						-.2108								-.1563	
160.000						-.2152								-.1560	
170.000						-.2161								-.1560	
180.000						-.2009	-.1981	-.1984	-.1972	-.1954	-.1939	-.1904	-.1854	-.1824	-.1751

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1974	-.1877	-.1697	-.1521	-.1304	-.1128	-.1277	.0000	-.0793	-.0679	-.0560	-.0564	-.0641	-.0671	.1781
100.000	-.1880	-.1835	-.1777	-.1645	-.1477	-.1131	-.1142	-.1032	-.0846	-.0760	-.0620	-.0560	-.0587	-.0567	.0181
110.000	-.1800	-.1774	-.1756	-.1747	-.1686	-.1548	-.1139	-.1067	-.1056	-.0927	-.0805	-.0676	-.0611	-.0605	-.0340
120.000						-.1753								-.0883	
130.000						-.1680								-.1089	
140.000						-.1596								-.1337	
150.000						-.1551								-.1513	
160.000						-.1554								-.1591	
170.000						-.1572								-.1616	
180.000	-.1689	-.1692	-.1603	-.1606	-.1598	-.1584	-.1393	-.1079	-.1557	-.1554	-.1549	-.1594	-.1618	-.1648	-.0918

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0598		
70.000							-.0672	-.0777	.0000
80.000							-.0683	-.0910	-.1054
90.000	.0000	.0000	.0000	-.1197	-.0903	.0000	-.0567	-.0890	-.1130
100.000	.0000	.0000	-.1119	-.1131	-.0453	-.0216			
110.000	.0000	-.0921	-.0891	-.0368	.0428	-.0117			
120.000						.0365			
130.000						.1329			
140.000						.1379			
150.000						.0885			
160.000						.0269			
170.000						.0086			
180.000	-.0660	.0000	-.0765	-.0945	-.0751	-.0332			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 8.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .599 ALPHA (1) = -8.454

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3638	-.3413	-.4158												
70.000	-.3340	-.3717	-.4107												
80.000	-.3001	-.4840	-.4722												
90.000			-.6869	-.6143	-.5185	-.3175	-.2691	.0000	-.1729	-.1643	-.1190	-.1130	-.0764	-.0736	-.0935
100.000						-.3584	-.3233	-.2606	-.2280	-.1779	-.1596	-.1482	-.1370	-.1499	-.1389
110.000						-.6999	-.4503	-.3281	-.2501	-.1950	-.1824	-.1720	-.1591	-.1458	-.1345
120.000						-.4247								-.2228	
130.000						-.3289								-.2073	
140.000						-.2975								-.1868	
150.000						-.2601								-.1616	
160.000						-.2376								-.1323	
170.000						-.2604								-.1269	
180.000						-.2278	-.2058	-.1795	-.1783	-.1494	-.1184	-.1143	-.1029	-.0818	-.0736

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0882	-.0877	-.0833	-.0394	-.0308	-.0384	-.0178	.0000	-.0255	-.0373	-.0736	-.1025	-.1562	-.1482	-.1381
100.000	-.1433	-.1683	-.1714	-.1824	-.1594	-.1783	-.1707	-.1595	-.1410	-.1989	-.1706	-.1962	-.2121	-.1936	-.1840
110.000	-.1421	-.1210	-.1317	-.1301	-.0986	-.0828	-.0677	-.0578	-.0661	-.0642	-.0670	-.0817	-.0830	-.0801	-.0901
120.000						-.1465								-.1227	
130.000						-.1576								-.1322	
140.000						-.1547								-.1172	
150.000						-.0885								-.0907	
160.000						-.0917								-.0539	
170.000						-.0773								-.0424	
180.000	-.0838	-.0819	-.0958	-.0857	-.0680	-.0754	-.0693	-.0562	-.0840	-.0712	-.0562	-.0501	-.0396	-.0165	.0311

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0778		
70.000							-.1523	-.1459	.0000
80.000							-.2294	-.2528	-.1915
90.000	.0000	.0000	.0000	-.2516	-.2604	.0000	-.2267	-.2614	-.2140
100.000	.0000	.0000	-.1448	-.1804	-.2239	-.2392			
110.000	.0000	-.0925	-.0949	-.1305	-.3072	-.3335			
120.000						-.7153			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (1) = .599 ALPHA (1) = -8.454

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						-.6658			
140.000						-.1948			
150.000						.0334			
160.000						.0277			
170.000						-.1909			
180.000	-.0949	.0000	.1253	.1827	.2486	.3049			

MACH (1) = .601 ALPHA (2) = -6.373

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3302	-.3166	-.4195												
70.000	-.3134	-.3508	-.4024												
80.000	-.2979	-.4423	-.4701												
90.000			-.6373	-.5974	-.5160	-.3378	-.2567	.0000	-.1520	-.1555	-.1267	-.1125	-.1007	-.0856	-.0947
100.000						-.3321	-.3009	-.2459	-.2001	-.1659	-.1412	-.1444	-.1237	-.1426	-.1174
110.000						-.6414	-.4091	-.2953	-.2219	-.1858	-.1551	-.1524	-.1366	-.1518	-.1262
120.000						-.4106								-.1962	
130.000						-.3264								-.1905	
140.000						-.2953								-.1892	
150.000						-.2855								-.1741	
160.000						-.2634								-.1621	
170.000						-.2868								-.1483	
180.000						-.2456	-.2076	-.1925	-.1808	-.1615	-.1324	-.1234	-.1181	-.1181	-.1083

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0833	-.0800	-.0515	-.0364	-.0354	-.0320	-.0325	.0000	-.0370	-.0606	-.0660	-.1050	-.1267	-.1305	-.1403
100.000	-.1184	-.1308	-.1333	-.1160	-.1141	-.1412	-.1315	-.1391	-.1251	-.1838	-.1564	-.1803	-.2059	-.1867	-.1995
110.000	-.1169	-.1135	-.0990	-.1087	-.0807	-.0754	-.0740	-.0702	-.0651	-.0651	-.0778	-.0861	-.0915	-.1024	-.1196
120.000						-.1220								-.1142	
130.000						-.1612								-.1257	
140.000						-.1471								-.1184	
150.000						-.1213								-.0900	
160.000						-.1117								-.0679	
170.000						-.0935								-.0487	
180.000	-.0958	-.0965	-.1025	-.0946	-.0851	-.0919	-.0986	-.0941	-.0964	-.0903	-.0772	-.0705	-.0471	-.0264	.0066

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (1) = .601 ALPHA (2) = -6.373

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0896		
70.000							-.1424	-.1315	.0000
80.000							-.2019	-.2286	-.1794
90.000	.0000	.0000	.0000	-.2390	-.2691	.0000	-.2201	-.2365	-.2010
100.000	.0000	.0000	-.1518	-.1564	-.2302	-.2250			
110.000	.0000	-.1011	-.1181	-.1467	-.3121	-.3178			
120.000						-.6947			
130.000						-.6431			
140.000						-.2071			
150.000						.0246			
160.000						.0000			
170.000						-.2143			
180.000	-.1098	.0000	.1055	.1508	.2284	.3815			

MACH (1) = .599 ALPHA (3) = -4.301

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3273	-.3085	-.4115												
70.000	-.3085	-.3409	-.3949												
80.000	-.2879	-.4216	-.4550												
90.000			-.6059	-.5811	-.5106	-.3339	-.2420	.0000	-.1606	-.1670	-.1320	-.1206	-.0996	-.0845	-.0952
100.000						-.3756	-.2903	-.2369	-.1673	-.1536	-.1406	-.1320	-.1262	-.1398	-.1167
110.000						-.5779	-.3805	-.2861	-.2159	-.1720	-.1422	-.1473	-.1376	-.1344	-.1227
120.000						-.3981								-.1709	
130.000						-.3412								-.1774	
140.000						-.3088								-.1853	
150.000						-.2882								-.1802	
160.000						-.2799								-.1764	
170.000						-.3034								-.1654	
180.000						-.2837	-.2277	-.2115	-.1975	-.1809	-.1498	-.1365	-.1278	-.1206	-.1300

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.0674	-.0589	-.0447	-.0408	-.0292	-.0437	-.0359	.0000	-.0536	-.0747	-.0972	-.1086	-.1314	-.1497	-.1469
100.000	-.1218	-.1111	-.1130	-.0997	-.0899	-.1120	-.1187	-.1203	-.0994	-.1273	-.1329	-.1704	-.1904	-.1778	-.2063
110.000	-.1022	-.1016	-.0931	-.0921	-.0877	-.0871	-.0776	-.0850	-.0786	-.0926	-.0929	-.1035	-.1073	-.1116	-.1234
120.000						-.1070								-.1144	
130.000						-.1517								-.1331	
140.000						-.1482								-.1208	
150.000						-.1193								-.0938	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (1) = .599 ALPHA (3) = -4.301

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.1174								-.0781	
170.000						-.1113								-.0720	
180.000	-.1149	-.1149	-.1221	-.1085	-.0921	-.1078	-.1132	-.1177	-.1267	-.1212	-.0909	-.0826	-.0679	-.0496	-.0131

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0975		
70.000							-.1344	-.1377	.0000
80.000							-.1862	-.2173	-.1639
90.000	.0000	.0000	.0000	-.2390	-.2746	.0000	-.2191	-.2273	-.1644
100.000	.0000	.0000	-.1731	-.1847	-.2457	-.2331			
110.000	.0000	-.1183	-.1268	-.1621	-.3145	-.3051			
120.000						-.6964			
130.000						-.6071			
140.000						-.2078			
150.000						.0049			
160.000						.0034			
170.000						-.2240			
180.000	-.1298	.0000	.0842	.1335	.2165	.3567			

MACH (1) = .601 ALPHA (4) = -2.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3150	-.3017	-.4018												
70.000	-.2897	-.3172	-.3888												
80.000	-.2767	-.3834	-.4233												
90.000			-.5725	-.5623	-.4961	-.3210	-.2403	.0000	-.1633	-.1690	-.1310	-.1200	-.0890	-.0834	-.0988
100.000						-.3584	-.2922	-.2327	-.1842	-.1538	-.1314	-.1301	-.1139	-.1341	-.1048
110.000						-.5465	-.3736	-.2894	-.2102	-.1662	-.1424	-.1310	-.1187	-.1199	-.1061
120.000						-.3758								-.1530	
130.000						-.3384								-.1615	
140.000						-.3102								-.1735	
150.000						-.2982								-.1675	
160.000						-.2811								-.1684	
170.000						-.3052								-.1662	
180.000						-.2995	-.2492	-.2343	-.2169	-.1963	-.1603	-.1476	-.1413	-.1420	-.1354

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (RE8026)

MACH (1) = .601 ALPHA (4) = -2.194

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0832	-.0699	-.0617	-.0488	-.0412	-.0491	-.0370	.0000	-.0507	.0789	-.0885	-.1256	-.1582	-.1573	-.1436
100.000	-.1004	-.1039	-.1	-.0897	-.0768	-.1052	-.0923	-.0968	-.0856	- 1422	-.1310	-.1688	-.1886	-.1691	-.1797
110.000	-.1027	-.0979	-. 6	-.0907	-.0800	-.0865	-.0830	-.0811	-.0881	-.0898	-.1109	-.1202	-.1211	-.1333	-.1317
120.000						-.1020								-.1163	
130.000						-.1348								-.1246	
140.000						-.1393								-.1240	
150.000						-.1204								-.1044	
160.000						-.1160								-.0901	
170.000						-.1192								-.0872	
180.000	-.1373	-.1266	-.1304	-.1260	-.1190	-.1173	-.1246	-.1253	-.1342	-.1243	.1156	-.1077	-.0962	-.0[illegible]	.0275

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9070	.9450
PHI									
60.000							-.1081		
70.000							-.1428	-.1330	.0000
80.000							-.1865	-.2087	-.1458
90.000	.0000	.0000	.0000	-.2256	-.2450	.0000	-.2145	-.2239	-.1777
100.000	.0000	.0000	-.1769	-.1800	-.2377	-.2424			
110.000	.0000	-.1125	-.1265	-.1578	-.3018	-.3044			
120.000						-.6679			
130.000						-.5791			
140.000						-.2181			
150.000						-.0115			
160.000						-.0267			
170.000						-.2321			
180.000	-.0518	.0000	.0675	.1281	.1911	.3260			

MACH (1) = .600 ALPHA (5) = -.095

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3[illegible]	.3[illegible]	.4050	.[illegible]	
PHI															
60.000	-.3148	-.2904	-.3925												
70.000	-.2619	-.3120	-.3776												
80.000	-.2568	-.3779	-.4140												
90.000			-.5401	-.5607	-.4948	-.3228	-.2341	.0000	-.1653	-.1694	-.1317	-.1159	-.0926	-.[illegible]	-.[illegible]
100.000						-.3342	-.2908	-.2353	-.1755	-.1579	-.1[illegible]	-.1235	-.1052	-.[illegible]	-.[illegible]
110.000						-.4919	-.3510	-.2591	-.1986	-.1[illegible]	-.1[illegible]	-.1231	-.1190	-.1[illegible]	-.0379
120.000						-.3709								-.1373	
130.000						-.3434								-.1537	
140.000						-.3269								-.1670	
150.000						-.2414								-.1736	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (1) = .600 ALPHA (5) = -.095

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2050	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
100.000						-.2990								-.1594	
170.000						-.3117								-.1701	
180.000						-.3076	-.2635	-.2477	-.2201	-.2033	-.1767	-.1610	-.1528	-.1544	-.1427

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0670	-.0677	-.0532	-.0515	-.0434	-.0494	-.0466	.0000	-.0693	-.0921	-.1093	-.1375	-.1733	-.1768	-.1713
100.000	-.0913	-.1027	-.0972	-.0819	-.0655	-.0926	-.0901	-.0898	-.0767	-.1384	-.1135	-.1595	-.1765	-.1621	-.1704
110.000	-.0691	-.0653	-.0660	-.0803	-.0762	-.0860	-.0914	-.0885	-.0946	-.1138	-.1224	-.1298	- 1407	-.1464	-.1452
120.000						-.0923								-.1234	
130.000						-.1237								-.1176	
140.000						-.1263								-.1157	
150.000						-.1145								-.1116	
160.000						-.1212								-.0978	
170.000						-.1324								-.1029	
180.000	-.1389	-.1374	-.1424	-.1415	-.1326	-.1276	-.1378	-.1314	-.1503	-.1420	-.1327	-.1320	-.0978	-.0770	-.0375

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1084		
90.000							-.1455	-.1300	.0000
80.000							-.1844	-.1965	-.1461
90.000	.0000	.0000	.0000	-.2169	-.2403	.0000	-.2026	-.2178	-.1692
100.000	.0000	.0000	- 1695	-.1899	-.2339	-.2439			
110.000	.0000	-.1221	-.1256	-.1503	-.2993	-.3126			
120.000						-.6498			
130.000						-.5496			
140.000						-.2294			
150.000						-.0275			
160.000						-.0436			
170.000						-.2415			
180.000	-.0707	.0000	.0503	.1034	.1662	.3069			

AMES 60-650 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (1) = .600 ALPHA (0) = 2.026

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3071	-.2857	-.3819												
70.000	-.2722	-.2966	-.3528												
80.000	-.2652	-.3699	-.3969												
90.000			-.5066	-.5529	-.4901	-.3131	-.2439	.0000	-.1678	-.1652	-.1383	-.1281	-.1000	-.0830	-.1045
100.000						-.3277	-.2772	-.2426	-.1792	-.1475	-.1196	-.1262	-.1089	-.1206	-.1475
110.000						-.4473	-.3330	-.2591	-.1963	-.1659	-.1389	-.1215	-.1026	-.1064	-.0992
120.000						-.3505								-.1225	
130.000						-.3369								-.1373	
140.000						-.3204								-.1553	
150.000						-.3030								-.1645	
160.000						-.3014								-.1632	
170.000						-.3258								-.1	
180.000						-.3207	-.2670	-.2553	-.2341	-.2141	-.1719	-.1625	-.1406	-.1529	-.1446

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6	.7
PHI															
90.000	-.0685	-.0692	-.0673	-.0717	-.0619	-.0723	-.0513	.0000	-.0894	-.1124	-.1301	-.1643	-.1358	-.2015	-.1911
100.000	-.0852	-.0831	-.0903	-.0802	-.0635	-.0672	-.0820	-.0862	-.0759	-.1331	-.1262	-.1685	-.1494	-.1627	-.1
110.000	-.0903	-.0665	-.0865	-.0774	-.0837	-.0962	-.0849	-.0900	-.0900	-.1352	-.1324	-.1580	-.1373	-.1605	-.1576
120.000						-.1079								.1253	
130.000						-.1182								-.1	
140.000						-.1195								-.1116	
150.000						-.1140								-.1121	
160.000						-.1231								-.1	
170.000						-.1224								-.1 32	
180.000	-.1535	-.1538	-.1522	-.1497	-.1307	-.1361	-.1441	-.1413	-.1637	-.1477	-.1358	-.1288	-.1124	-.1	-.0608

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1346		
70.000							-.1534	-.1542	.0000
80.000							-.1912	-.1878	-.1401
90.000	.0000	.0000	.0000	-.2099	-.2279	.0000	-.1985	-.2210	-.1671
100.000	.0000	.0000	-.1716	-.1847	-.2285	-.2353			
110.000	.0000	-.1186	-.1241	-.1497	-.2676	-.3175			
120.000						-.6018			
130.000						-.5108			
140.000						-.2140			
150.000						-.0536			
160.000						-.0658			
170.000						-.2448			
180.000	-.0772	.0000	.0403	.0905	.1472	.2793			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (I) = .600 ALPHA (7) = 4.190

SECTION (1)OMB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1265	.1645	.2035	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	-.3199	-.2870	-.3711												
90.000	-.2851	-.2984	-.3483												
95.000	-.2658	-.3645	-.3525												
98.000			-.4761	-.5336	-.4930	-.3219	-.2409	.0000	-.1740	-.1660	-.1403	-.1197	-.0983	-.0913	-.1176
100.000						-.3083	-.2735	-.2222	-.1857	- 1527	-.1216	-.1213	-.1071	-.1226	-.0932
110.000						-.4255	-.3079	-.2552	-.1832	-.1492	-.1337	-.1207	-.1157	-.1131	-.1027
120.000						-.3365								-.1103	
130.000						-.3518								-.1210	
140.000						-.3298								-.1441	
150.000						-.3156								-.1535	
160.000						-.3022								-.1624	
170.000						-.3233								-.1627	
180.000						-.3360	-.2765	-.2685	-.2435	-.2228	-.1870	-.1731	-.1700	- 1642	-.1555

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0737	-.0708	-.0778	-.0617	-.0652	-.0816	-.0674	.0000	-.0985	-.1456	-.1580	-.1814	-.2230	-.2046	-.2044
100.000	-.0904	-.0920	-.0898	-.0794	-.0746	-.0945	-.0895	-.1007	-.0854	-.1533	-.1394	-.1696	-.2029	-.1976	-.1974
110.000	-.0917	-.0882	-.0861	-.0829	-.0873	-.0936	-.0901	-.0943	-.1026	-.1087	-.1345	-.1599	-.1558	-.1593	-.1776
120.000						-.0873								-.1286	
130.000						-.1158								-.1145	
140.000						-.1228								-.1148	
150.000						-.1113								-.1029	
160.000						-.1302								-.1106	
170.000						-.1392								-.1061	
180.000	-.1508	-.1441	-.1631	-.1634	-.1469	-.1456	-.1494	-.1632	-.1674	-.1629	-.1446	-.1462	-.1266	-.1042	-.0744

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.1112		
90.000							-.1538	-.1337	.0000
95.000							-.1751	-.1879	-.1240
98.000	.0000	.0000	.0000	-.2135	-.2288	.0000	-.1631	-.1943	-.1525
100.000	.0000	.0000	-.1708	-.1828	-.2300	-.2330			
110.000	.0000	-.1319	-.1344	-.1575	-.2348	-.3648			
120.000						-.5490			
130.000						-.4689			
140.000						-.2108			
150.000						-.0497			
160.000						-.0941			
170.000						-.2330			
180.000	-.1328	.0000	.0308	.0734	.1203	.2427			

AMES 68-030 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (I) = .851 ALPHA (0) = 8.244

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3085	-.2597	-.3730												
70.000	-.2543	-.2753	-.3432												
80.000	-.2502	-.3369	-.3657												
90.000			.4515	-.5299	-.4443	-.3164	-.2451	.0000	-.1734	-.1687	-.1601	-.1320	-.0965	-.0950	-.1165
100.000						-.3243	-.2794	-.2196	-.1741	-.1589	-.1342	-.1373	-.0915	-.1250	.0000
110.000						-.3564	-.3079	-.2529	-.1949	-.1623	-.1344	-.1159	-.0928	-.1132	-.1173
120.000						-.3554								-.1000	
130.000						-.3470								-.1107	
140.000						-.3262								-.1321	
150.000						-.3079								-.1441	
160.000						-.3064								-.1301	
170.000						-.3211								-.1405	
180.000						-.3471	-.2785	-.2646	-.2003	-.1225	-.1361	-.1611	-.1542	-.1481	-.1604

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7130
PHI															
90.000	-.0786	-.0901	-.0787	-.0767	-.0822	-.0999	-.0754	.0000	-.1014	-.1433	-.1705	-.2069	-.2[illegible]	-.[illegible]	-.[illegible]
100.000	-.0928	-.0901	-.0907	-.0929	-.0743	-.1[illegible]	-.0987	-.1112	-.0933	-.[illegible]651	-.1612	-.1935	-.[illegible]4	-.[illegible]44	-.[illegible]
110.000	-.0869	-.0813	-.[illegible]	-.0869	-.0907	-.1[illegible]6	-.0812	-.0946	-.0971	-.1[illegible]05	-.15[illegible]	-.1683	-.1[illegible]21	-.[illegible]922	-.1736
120.000						-.[illegible]94								-.[illegible]44	
130.000						-.1[illegible]67								-.1[illegible]2	
140.000						-.[illegible]151								-.[illegible]13	
150.000						-.[illegible]987								-.[illegible]57	
160.000						-.1160								-.[illegible]	
170.000						-.1519								-.[illegible]144	
180.000	-.1619	-.1401	-.1480	-.1669	-.1609	-.1482	-.1584	-.1626	-.1709	-.1527	-.[illegible]44	.1483	-.1331	-.[illegible]1	-.[illegible]28

X/L	.7290	.7470	.7670	.7850	.8030	.[illegible]	.8623	.9[illegible]	.9499
PHI									
60.000							-.1177		
70.000							-.1556	-.1586	-.[illegible]
80.000							-.1[illegible]3	-.1751	-.1504
90.000	.0000	.0000	.0000	-.2109	-.2212	-.[illegible]	-.1899	-.1[illegible]	-.1[illegible]
100.000	.0000	.0000	-.1833	-.1787	-.2160	-.2343			
110.000	.0000	-.1253	-.1165	-.1362	-.2048	-.[illegible]126			
120.000						-.4[illegible]2			
130.000						-.4[illegible]37			
140.000						-.2[illegible]48			
150.000						-.[illegible]734			
160.000						-.1[illegible]35			
170.000						-.2318			
180.000	-.1499	.0000	.0239	.0849	.0939	.1997			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .600 ALPHA (9) = 8.344

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3014	-.2671	-.3588												
70.000	-.2538	-.2618	-.3401												
80.000	-.2421	-.3369	-.3575												
90.000			-.4117	-.5192	-.4834	-.3122	-.2450	.0000	-.1794	-.1698	-.1635	-.1422	-.1068	-.0989	-.1182
100.000						-.3176	-.2796	-.2304	-.1771	-.1581	-.1254	-.1362	-.1134	-.1292	-.1005
110.000						-.3759	-.3024	-.2621	-.2022	-.1445	- 54	-.1175	-.1071	-.1077	-.0920
120.000						-.3277								-.0869	
130.000						-.3512								-.1087	
140.000						-.3207								-.1267	
150.000						-.3084								-.1302	
160.000						-.2998								-.1532	
170.000						-.3280								-.1674	
180.000						-.3480	-.2919	-.2726	-.2526	-.2266	-.1870	-.1797	-.1658	-.1652	-.1475

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0907	-.0945	-.0993	-.0923	-.0857	-.1141	-.0987	.0000	-.1349	-.1804	-.1920	-.2435	-.2682	-.2653	-.2386
100.000	-.0894	-.1030	-.0977	-.0888	-.0914	-.1119	-.1154	-.1272	-.1135	-.1768	-.1862	-.2275	-.2304	-.2169	-.2253
110.000	-.0866	-.0911	-.0942	-.0892	- 0898	-.1125	-.1010	-.1103	-.1196	-.1359	-.1619	-.1846	-.1878	-.1840	-.1787
120.000						-.0816								-.1446	
130.000						-.1119								-.1299	
140.000						-.1205								-.1292	
150.000						-.1122								-.1174	
160.000						-.1349								-.1106	
170.000						-.1474								-.1154	
180.000	-.1652	-.1643	-.1460	-.1579	-.1551	-.1608	-.1525	-.1544	-.1580	-.1656	-.1564	-.1487	-.1385	-.1244	-.0813

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1249		
70.000							-.1569	-.1401	.0000
80.000							-.1648	-.1700	-.1204
90.000	.0000	.0000	.0000	-.2213	-.2250	.0000	-.1797	-.1843	-.1459
100.000	.0000	.0000	-.1741	-.1723	-.2268	-.2247			
110.000	.0000	-.1391	-.1233	-.1325	-.2022	-.3269			
120.000						-.4964			
130.000						-.3701			
140.000						-.1913			
150.000						-.0954			
160.000						-.1365			
170.000						-.1843			
180.000	-.1601	.0000	.0156	.0422	.0666	.1352			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .750 ALPHA (1) = -8.432

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3086	-.4032	-.5669												
70.000	-.3165	-.4200	-.5619												
80.000	-.2929	-.3917	-.6262												
90.000			-.8595	-.6573	-.5616	-.3378	-.2521	.0000	-.1506	-.1567	-.1338	-.1180	-.0971	-.0731	-.0911
100.000						-.3630	-.3118	-.2658	-.2164	-.1835	-.1622	-.1685	-.1556	-.1716	-.1389
110.000						-.7211	-.4457	-.3202	-.2374	-.2164	-.1901	-.1423	-.1690	-.1640	.1462
120.000						-.4450								-.2309	
130.000						-.3496								-.2137	
140.000						-.3189								-.2076	
150.000						-.3005								-.1771	
160.000						-.2590								-.1660	
170.000						-.2742								-.1389	
180.000						-.2542	-.2030	-.1914	-.1901	-.1774	-.1364	-.1196	-.1031	-.0835	-.0770

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0467	-.0727	-.0630	-.0473	-.0525	-.0489	-.0220	.0000	-.0377	-.0663	-.0820	-.1149	-.1465	-.1571	-.1271
100.000	-.1426	-.1433	-.1577	-.1650	-.1477	-.1524	-.1453	-.1334	-.1151	-.1369	-.1035	-.1666	-.1648	-.1537	-.1576
110.000	-.1357	-.1192	-.1038	-.1200	-.0870	-.0682	-.0565	-.0512	-.0329	-.0194	-.0538	-.0607	-.0870	-.0841	-.0860
120.000						-.1352								-.0971	
130.000						-.1300								-.1082	
140.000						-.1644								-.1319	
150.000						-.1127								-.0756	
160.000						-.0995								-.0525	
170.000						-.0812								-.0397	
180.000	-.0619	-.0910	-.0954	-.0907	-.0857	-.0629	-.0637	-.0621	-.0753	-.0761	-.0331	-.0474	-.0328	-.0164	0515

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1426		
70.000							-.2008	-.1786	.0000
80.000							-.2849	-.3368	-.2405
90.000	.0000	.0000	.0000	-.2624	-.2962	.0000	-.2627	-.2722	-.2339
100.000	.0000	.0000	-.2014	-.1820	-.2836	-.2589			
110.000	.0000	-.1102	-.0994	-.1596	-.3772	-.3956			
120.000						-.8566			
130.000						-.6926			
140.000						-.1615			
150.000						0917			
160.000						.0714			
170.000						-.1696			
180.000	-.0908	.0000	.1742	.2325	.3082	.4715			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A29/0A63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .747 ALPHA (2) = -6.291

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3125	-.3680	-.4968												
70.000	-.3030	-.3707	-.4891												
80.000	-.2620	-.4590	-.5422												
90.000			-.7410	-.6742	-.5378	-.3342	-.2602	.0000	-.1566	-.1539	-.1187	-.1179	-.0840	-.0837	-.1035
100.000						-.3421	-.2968	-.2386	-.1872	-.1637	-.1383	-.1402	-.1242	-.1437	-.1408
110.000						-.6551	-.4126	-.2888	-.2237	-.1822	-.1645	-.1482	-.1277	-.1327	-.1371
120.000						-.4281								-.1934	
130.000						-.3495								-.2053	
140.000						-.3268								-.1984	
150.000						-.3001								-.1776	
160.000						-.2848								-.1826	
170.000						-.3102								-.1640	
180.000						-.2821	-.2222	-.2023	-.1870	-.1708	-.1341	-.1208	-.1235	-.1300	-.1264

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0801	-.0549	-.0523	-.0457	-.0365	-.0349	-.0363	.0000	-.0537	-.0724	-.0708	-.0986	-.1347	-.1395	-.1418
100.000	-.1237	-.1165	-.1136	-.0979	-.0952	-.1012	-.1079	-.1113	-.1057	-.1562	-.1189	-.1405	-.1547	-.1566	-.1662
110.000	-.1199	-.1031	-.0917	-.0907	-.0794	-.0725	-.0617	-.0569	-.0649	-.0684	-.0551	-.0684	-.0780	-.0839	-.0873
120.000						-.1099								-.0935	
130.000						-.1450								-.1122	
140.000						-.1404								-.0967	
150.000						-.0999								-.0780	
160.000						-.0991								-.0524	
170.000						-.0903								-.0508	
180.000	-.0991	-.0854	-.0983	-.0944	-.0775	-.0862	-.0884	-.0991	-.1164	-.1012	-.0724	-.0585	-.0417	-.0252	.0221

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1348		
70.000							-.1985	-.1853	.0000
80.000							-.2606	-.2713	-.2152
90.000	.0000	.0000	.0000	-.2682	-.3154	.0000	-.2647	-.2576	-.2183
100.000	.0000	.0000	-.2114	-.1977	-.2872	-.2901			
110.000	.0000	-.1421	-.1299	-.1616	-.3952	-.3677			
120.000						-.8571			
130.000						-.6629			
140.000						-.1579			
150.000						.0807			
160.000						.0780			
170.000						-.1551			
180.000	-.1058	.0000	.1224	.1832	.2842	.4646			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .749 ALPHA (3) = -4.225

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3085	-.3528	-.4872												
70.000	-.2958	-.3588	-.4851												
80.000	-.2616	-.4347	-.5494												
90.000			-.7178	-.6483	-.5418	-.3383	-.2542	.0000	-.1675	-.1669	-.1348	-.1219	-.0950	-.0868	-.0969
100.000						-.3438	-.3016	-.2439	-.1928	-.1598	-.1464	-.1427	-.1180	-.1429	-.1[illegible]
110.000						-.5903	-.3856	-.2860	-.2152	-.1854	-.1601	-.1356	-.1248	-.1287	-.1[illegible]
120.000						-.4065								-.1728	
130.000						-.3359								-.1780	
140.000						-.3238								-.1851	
150.000						-.2829								-.174[illegible]	
160.000						-.2616								-.1775	
170.000						-.3077								-.1[illegible]	
180.000						-.3014	-.2486	-.2262	-.2107	-.1920	-.1630	-.1450	-.1371	-.1[illegible]	-.1246

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0706	-.0607	-.0615	-.0468	-.0403	-.0413	-.0291	.0000	-.0406	-.0613	-.0731	-.1199	-.1491	-.1491	-.1382
100.000	-.1052	-.1110	-.1029	-.0822	-.0780	-.0931	-.0884	-.0829	-.0664	-.1182	-.1050	-.1457	-.1606	-.1545	-.1660
110.000	-.1063	-.1082	-.0985	-.0874	-.0770	-.0785	-.0709	-.0704	-.0645	-.0693	-.0800	-.1036	-.1063	-.1[illegible]	-.1134
120.000						-.1100								-.1038	
130.000						-.1233								-.1[illegible]	
140.000						-.1395								-.1151	
150.000						-.1124								-.[illegible]035	
160.000						-.1129								-.[illegible]816	
170.000						-.1084								-.0715	
180.000	-.1218	-.1168	-.1289	-.1184	-.1121	-.1068	-.1140	-.1161	-.1262	-.1137	-.1084	-.[illegible]965	-.0720	-.[illegible]531	.[illegible]004

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1568		
70.000							-.2104	-.1892	.0000
80.000							-.2628	-.2663	-.2074
90.000	.0000	.0000	.0000	-.2575	-.3050	.0000	-.2678	-.2643	-.2132
100.000	.0000	.0000	-.2092	-.2004	-.2868	-.3153			
110.000	.0000	-.1169	-.1286	-.1693	-.3968	-.4231			
120.000						-.8585			
130.000						-.6435			
140.000						-.1768			
150.000						.0607			
160.000						.0381			
170.000						-.1758			
180.000	-.1068	.0000	.1137	.1802	.2584	.4339			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .748 ALPHA (4) = -2.082

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2740	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.3077	-.3418	-.4618												
70.000	-.2760	-.3413	-.4615												
80.000	-.2568	-.4005	-.5143												
90.000			-.6712	-.6358	-.5429	-.3297	-.2527	.0000	-.1609	-.1669	-.1371	-.1244	-.0867	-.0806	-.0982
100.000						-.3373	-.2907	-.2401	-.1878	-.1545	-.1387	-.1352	-.1177	-.1335	-.1151
110.000						-.5431	-.3691	-.2733	-.2047	-.1793	-.1543	-.1295	-.1214	-.1264	-.1069
120.000						-.3828								-.1542	
130.000						-.3405								-.1647	
140.000						-.3429								-.1760	
150.000						-.3027								-.1687	
160.000						-.2819								-.1729	
170.000						-.3183								-.1703	
180.000						-.3336	-.2675	-.2430	-.2221	-.2073	-.1748	-.1471	-.1437	-.1519	-.1463

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0699	-.0678	-.0629	-.0492	-.0445	-.0500	-.0296	.0000	-.0504	-.0731	-.0872	-.1211	-.1552	-.1675	-.1465
100.000	-.1019	-.1073	-.0983	-.0742	-.0686	-.0641	-.0792	-.0739	-.0608	-.1176	-.1040	-.1387	-.1619	-.1539	-.1683
110.000	-.0994	-.0931	-.0873	-.0802	-.0760	-.0781	-.0728	-.0696	-.0758	-.0918	-.1051	-.1240	-.1251	-.1315	-.1328
120.000						-.0970								-.1198	
130.000						-.1251								-.1176	
140.000						-.1272								-.1166	
150.000						-.1190								-.1094	
160.000						-.1232								-.0920	
170.000						-.1152								-.0918	
180.000	-.1425	-.1327	-.1427	-.1348	-.1283	-.1206	-.1320	-.1270	-.1454	-.1403	-.1283	-.1155	-.0923	-.0659	-.0233

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1662		
70.000							-.2111	-.1875	.0000
80.000							-.2546	-.2496	-.1895
90.000	.0000	.0000	.0000	-.2603	-.3079	.0000	-.2660	-.2597	-.1943
100.000	.0000	.0000	-.2103	-.2129	-.2968	-.3225			
110.000	.0000	-.1655	-.1445	-.1744	-.3902	-.4221			
120.000						-.8399			
130.000						-.6157			
140.000						-.1814			
150.000						.0528			
160.000						.0156			
170.000						-.1801			
180.000	-.1234	.0000	.0977	.1526	.2335	.4061			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .754 ALPHA (5) = -.083

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3078	-.3467	-.4479												
70.000	-.2722	-.3324	-.4511												
80.000	-.2563	-.3818	-.4953												
90.000			-.6179	-.6276	-.5465	-.3297	-.2384	.0000	-.1657	-.1608	-.1271	-.1177	-.0949	-.0843	-.0981
100.000						-.3368	-.2831	-.2154	-.1846	-.1485	-.1383	-.1328	-.1160	-.1379	-.1017
110.000						-.4924	-.3400	-.2588	-.1908	-.1626	-.1430	-.1334	-.1194	-.1186	-.1035
120.000						-.3760								-.1371	
130.000						-.3533								-.1475	
140.000						-.3622								-.1618	
150.000						-.3486								-.1636	
160.000						-.3182								-.1727	
170.000						-.3405								-.1746	
180.000						-.3572	-.2781	-.2478	-.2227	-.2185	-.1788	-.1618	-.1522	-.1568	-.1480

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0684	-.0672	-.0570	-.0489	-.0443	-.0500	-.0383	.0000	-.0594	-.0887	-.1024	-.1357	-.1800	-.1813	-.1741
100.000	-.0905	-.1020	-.0932	-.0799	-.0703	-.0825	-.0776	-.0655	-.0623	-.1125	-.1046	-.1423	-.1673	-.1563	-.1711
110.000	-.0947	-.0890	-.0838	-.0812	-.0687	-.0731	-.0697	-.0713	-.0726	-.0895	-.1064	-.1323	-.1457	-.1486	-.1477
120.000						-.0942								-.1175	
130.000						-.1225								-.1114	
140.000						-.1272								-.1212	
150.000						-.1172								-.1067	
160.000						-.1283								-.1051	
170.000						-.1296								-.1011	
180.000	-.1506	-.1369	-.1514	-.1447	-.1395	-.1309	-.1473	-.1441	-.1573	-.1473	-.1497	-.1370	-.1106	-.0940	-.0412

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1712		
70.000							-.2106	-.1885	.0000
80.000							-.2444	-.2542	-.1740
90.000	.0000	.0000	.0000	-.2573	-.3042	.0000	-.2642	-.2504	-.2005
100.000	.0000	.0000	-.2207	-.2192	-.2977	-.3372			
110.000	.0000	-.1603	-.1450	-.1874	-.3726	-.4212			
120.000						-.7856			
130.000						-.5877			
140.000						-.1822			
150.000						.0369			
160.000						.0016			
170.000						-.1842			
180.000	-.1427	.0000	.0800	.1417	.2138	.3736			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .751 ALPHA (6) = 2.151

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3138	-.3348	-.4495												
70.000	-.2752	-.3219	-.4374												
80.000	-.2821	-.3847	-.4655												
90.000			-.5860	-.6270	-.5459	-.3253	-.2403	.0000	-.1568	-.1604	-.1384	-.1292	-.0980	-.0888	-.1027
100.000						-.3290	-.2781	-.2180	-.1725	-.1392	-.1284	-.1310	-.1102	-.1259	-.0943
110.000						-.4537	-.3210	-.2450	-.1867	-.1531	-.1410	-.1275	-.1128	-.1188	-.0940
120.000						-.3679								-.1254	
130.000						-.3723								-.1345	
140.000						-.3868								-.1486	
150.000						-.4015								-.1538	
160.000						-.4044								-.1674	
170.000						-.4049								-.1685	
180.000						-.4052	-.2897	-.2482	-.2277	-.2109	-.1804	-.1687	-.1664	-.1596	-.1523

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0812	-.0694	-.0650	-.0461	-.0475	-.0579	-.0480	.0000	-.0803	-.0989	-.1182	-.1577	-.1937	-.1980	-.2014
100.000	-.0904	-.0981	-.0892	-.0791	-.0540	-.0809	-.0811	-.0833	-.0713	-.1246	-.1185	-.1516	-.1784	-.1754	-.1939
110.000	-.0874	-.0748	-.0754	-.0704	-.0757	-.0746	-.0788	-.0711	-.0825	-.0947	-.1153	-.1352	-.1402	-.1574	-.1682
120.000						-.0921								-.1251	
130.000						-.1174								-.1166	
140.000						-.1272								-.1134	
150.000						-.1196								-.1071	
160.000						-.1349								-.0986	
170.000						-.1378								-.1089	
180.000	-.1564	-.1410	-.1504	-.1525	-.1496	-.1530	-.1540	-.1551	-.1635	-.1577	-.1513	-.1484	-.1251	-.1095	-.0672

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1607		
70.000							-.2060	-.1735	.0000
80.000							-.2367	-.2254	-.1712
90.000	.0000	.0000	.0000	-.2556	-.3042	.0000	-.2559	-.2448	-.1952
100.000	.0000	.0000	-.2269	-.2173	-.2954	-.3259			
110.000	.0000	-.1838	-.1554	-.1821	-.3231	-.4088			
120.000						-.7033			
130.000						-.5443			
140.000						-.1753			
150.000						.0231			
160.000						-.0206			
170.000						-.1919			
180.000	-.1478	.0000	.0811	.1119	.1890	.3338			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = 790 ALPHA (7) = 4.323

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3109	-.3240	-.4174												
70.000	-.2780	-.3046	-.4030												
80.000	-.2456	-.3709	-.4432												
90.000			-.5308	-.6198	-.5487	-.3288	-.2465	.0000	-.1649	-.1668	-.1373	-.1205	-.0935	-.0893	-.0965
100.000						-.3196	-.2786	-.2260	-.1686	-.1415	-.1218	-.1310	-.1032	-.1194	-.0932
110.000						-.4266	-.3086	-.2365	-.1865	-.1555	-.1389	-.1107	-.1058	-.1118	-.0862
120.000						-.3580								-.1131	
130.000						-.3893								-.1309	
140.000						-.4259								-.1225	
150.000						-.4301								-.1382	
160.000						-.4666								-.1544	
170.000						-.4572								-.1555	
180.000						-.4527	-.3144	-.2615	-.2386	-.2155	-.1757	-.1610	-.1563	-.1594	-.1589

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0889	-.0775	-.0610	-.0581	-.0570	-.0709	-.0554	.0000	-.0838	-.1186	-.1506	-.1886	-.2282	-.2284	-.2228
100.000	-.0825	-.0968	-.0887	-.0798	-.0730	-.0835	-.0843	-.0851	-.0796	-.1430	-.1410	-.1761	-.1997	-.1984	-.2086
110.000	-.0890	-.0838	-.0775	-.0775	-.0790	-.0861	-.0735	-.0713	-.0846	-.1032	-.1368	-.1482	-.1612	-.1750	-.1738
120.000						-.0906								-.1434	
130.000						-.1120								-.1193	
140.000						-.1204								-.1158	
150.000						-.1101								-.1155	
160.000						-.1271								-.1039	
170.000						-.1295								-.1259	
180.000	-.1518	-.1453	-.1466	-.1545	-.1471	-.1507	-.1589	-.1621	-.1722	-.1672	-.1612	-.1533	-.1421	-.1203	-.0642

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1604		
70.000							-.2054	-.1711	.0000
80.000							-.2337	-.2314	-.1612
90.000	.0000	.0000	.0000	-.2624	-.2879	.0000	-.2562	-.2400	-.1849
100.000	.0000	.0000	-.2356	-.2265	-.3025	-.3188			
110.000	.0000	-.1755	-.1581	-.1811	-.2781	-.4067			
120.000						-.6312			
130.000						-.4943			
140.000						-.1647			
150.000						.0032			
160.000						-.0534			
170.000						-.2188			
180.000	-.1740	.0000	.0458	.0957	.1456	.2816			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (Z) = .750 ALPHA (B) = 6.367

SECTION (1)ORB. FUSELAGE DEFENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3090	-.3058	-.4125												
70.000	-.2879	-.2882	-.3836												
80.000	-.2477	-.3471	-.4223												
90.000			-.5053	-.6052	-.5752	-.3387	-.2533	.0000	-.1708	-.1766	-.1455	-.1287	-.1051	-.1051	-.1015
100.000						-.3331	-.2817	-.2326	-.1823	-.1392	-.1187	-.1234	-.1044	-.1187	-.0887
110.000						-.4128	-.3148	-.2475	-.1766	-.1471	-.1279	-.1166	-.0929	-.1153	-.1030
120.000						-.3692								-.1156	
130.000						-.4157								-.1101	
140.000						-.4604								-.1263	
150.000						-.5245								-.1323	
160.000						-.5174								-.1514	
170.000						-.5158								-.1559	
180.000						-.5264	-.3638	-.2736	-.2402	-.2086	-.1766	-.1637	-.1543	-.1579	-.1491

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0808	-.0778	-.0839	-.0600	-.0697	-.0807	-.0752	.0000	-.1049	-.1524	-.1777	-.2204	-.2504	-.2613	-.2437
100.000	-.0936	-.1003	-.0912	-.0854	-.0687	-.0870	-.1001	-.1031	-.0996	-.1572	-.1506	-.2106	-.2284	-.2167	-.2434
110.000	-.0925	-.0904	-.0825	-.0857	-.0862	-.0951	-.0895	-.0901	-.0988	-.1174	-.1554	-.1774	-.1756	-.1915	-.1986
120.000						-.0815								-.1509	
130.000						-.1203								-.1360	
140.000						-.1344								-.1342	
150.000						-.1206								-.1214	
160.000						-.1307								-.1159	
170.000						-.1232								-.1191	
180.000	-.1485	-.1519	-.1568	-.1469	-.1529	-.1532	-.1643	-.1537	-.1659	-.1771	-.1737	-.1567	-.1498	-.1185	-.0717

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1605		
70.000							-.2049	-.1642	.0000
80.000							-.2230	-.2109	-.1473
90.000	.0000	.0000	.0000	-.2654	-.2883	.0000	-.2392	-.2170	-.1577
100.000	.0000	.0000	-.2518	-.2248	-.2964	-.3260			
110.000	.0000	-.2127	-.1577	-.1988	-.2702	-.3976			
120.000						-.5913			
130.000						-.4367			
140.000						-.1736			
150.000						-.0601			
160.000						-.0984			
170.000						-.1953			
180.000	-.1875	.0000	.0335	.0758	.1220	.2084			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (2) = .749 ALPHA (9) = 8.585

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2919	-.2913	-.3916												
70.000	-.2694	-.2857	-.3587												
80.000	-.2317	-.3344	-.3863												
90.000			-.4422	-.5902	-.5681	-.3529	-.2596	.0000	-.1732	-.1779	-.1469	-.1226	-.1042	-.1008	-.1219
100.000						-.3350	-.2951	-.2338	-.1843	-.1384	-.1261	-.1237	-.1136	-.1162	-.0948
110.000						-.4043	-.2983	-.2369	-.1735	-.1474	-.1174	-.0963	-.1016	-.1063	-.0893
120.000						-.3653								-.1026	
130.000						-.4648								-.1173	
140.000						-.5233								-.1052	
150.000						-.5994								-.1212	
160.000						-.5960								-.1435	
170.000						-.6179								-.1582	
180.000						-.6013	-.3839	-.3114	-.2314	-.2174	-.1856	-.1736	-.1566	-.1448	-.1393

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0879	-.0825	-.0791	-.0696	-.0757	-.0914	-.0909	.0000	-.1380	-.1696	-.2145	-.2509	-.2922	-.3007	-.2626
100.000	-.0934	-.0935	-.0995	-.0775	-.0820	-.1032	-.1074	-.1100	-.1034	-.1754	-.1871	-.2358	-.2672	-.2230	-.2652
110.000	-.0966	-.0877	-.0854	-.0835	-.0956	-.0917	-.0957	-.1146	-.1191	-.1422	-.1677	-.1898	-.2042	-.2241	-.2232
120.000						-.0888								-.1640	
130.000						-.0983								-.1462	
140.000						-.1334								-.1454	
150.000						-.1188								-.1372	
160.000						-.1403								-.1305	
170.000						-.1512								-.1390	
180.000	-.1543	-.1465	-.1556	-.1386	-.1564	-.1531	-.1590	-.1760	-.1802	-.1781	-.1789	-.1749	-.1459	-.1310	-.1004

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1615		
70.000							-.1494	-.1658	.0000
80.000							-.2278	-.2090	-.1395
90.000	.0000	.0000	.0000	-.2702	-.2813	.0000	-.2217	-.2126	-.1610
100.000	.0000	.0000	-.2571	-.2323	-.2750	-.3011			
110.000	.0000	-.1898	-.1732	-.1802	-.2750	-.4014			
120.000						-.5634			
130.000						-.3617			
140.000						.1962			
150.000						-.1079			
160.000						-.1236			
170.000						-.1256			
180.000	-.2080	.0000	.0231	.0427	.0640	.1162			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .847 ALPHA (1) = -8.396

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2475	-.3326	-.6683												
70.000	-.2370	-.3336	-.5708												
80.000	-.1964	-.4055	-.5828												
90.000			-.7517	-.9151	-.6720	-.6598	-.5523	.0000	-.4172	-.2676	-.1801	-.1374	-.1022	-.0906	-.0863
100.000						-.6491	-.5812	-.4527	-.4000	-.2938	-.2149	-.1415	-.1409	-.1257	-.1356
110.000						-.6396	-.5581	-.4490	-.394[illegible]	-.2802	-.2258	-.1680	-.1344	-.1477	-.1216
120.000						-.4707								-.1941	
130.000						-.3250								-.1987	
140.000						-.2555								-.1955	
150.000						-.2317								-.1803	
160.000						-.1904								-.1663	
170.000						-.2169								-.1518	
180.000						-.2378	-.1760	-.1811	-.1789	-.1806	-.1439	-.1341	-.1206	-.1076	-.0885

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0873	-.0747	-.0738	-.0791	-.0738	-.0776	-.0542	.0000	-.0542	-.0648	-.0489	-.1004	-.1296	-.1122	-.1094
100.000	-.1228	-.1349	-.1373	-.0986	-.0933	-.0844	-.0819	-.0719	-.0515	-.0699	-.0502	-.0769	-.0921	-.0668	-.0863
110.000	-.0960	-.1005	-.0941	-.0863	-.0665	-.0450	-.0473	-.0351	-.0235	-.0282	-.0315	-.0315	-.0450	-.0487	-.0413
120.000						-.0704								-.0399	
130.000						-.1241								-.0693	
140.000						-.1266								-.0700	
150.000						-.0888								-.0448	
160.000						-.0969								-.0205	
170.000						-.0601								-.0122	
180.000	-.0849	-.0689	-.0936	-.0718	-.0670	-.0640	-.0684	-.0665	-.0738	-.0549	-.0399	-.0462	-.0004	.0128	.0590

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3001		
70.000							-.3866	-.3747	.0000
80.000							-.4547	-.4199	-.2896
90.000	.0000	.0000	.0000	-.2047	-.2852	.0000	-.4204	-.3857	-.2831
100.000	.0000	.0000	-.1336	-.1637	-.2660	-.3610			
110.000	.0000	-.0763	-.0977	-.1189	-.3358	-.4663			
120.000						-.8185			
130.000						-.5775			
140.000						-.0631			
150.000						.1676			
160.000						.1531			
170.000						-.0377			
180.000	-.0427	.0000	.1917	.2704	.3600	.5442			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (3) = .890 ALPHA (2) = -6.222

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.2509	-.3390	-.4617												
70.000	-.2337	-.3192	-.3647												
80.000	-.1989	-.3012	-.3787												
90.000			-.7109	-.9234	-.6508	-.6470	-.5635	.0000	-.3509	-.2434	-.1593	-.1148	-.0704	-.0815	-.0776
100.000						-.6373	-.5768	-.4584	-.3362	-.2379	-.1522	-.1278	-.1162	-.1075	-.1113
110.000						-.6448	-.5605	-.4513	-.3648	-.2434	-.1687	-.1450	-.1210	-.1313	-.1111
120.000						-.5020								-.1674	
130.000						-.4022								-.1891	
140.000						-.3165								-.1867	
150.000						-.3035								-.1807	
160.000						-.2630								-.1831	
170.000						-.2579								-.1597	
180.000						-.3508	-.1666	-.1609	-.1763	-.1758	-.1472	-.1373	-.1340	-.1234	-.1135

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0857	-.0548	-.0813	-.0498	-.0442	-.0444	-.0519	.0000	-.0522	-.0546	-.0623	-.0883	-.1126	-.1119	-.1089
100.000	-.1123	-.1062	-.1050	-.0949	-.0853	-.0867	-.0754	-.0734	-.0580	-.1008	-.0721	-.0917	-.1067	-.0871	-.0992
110.000	-.0907	-.0820	-.0726	-.0768	-.0562	-.0531	-.0556	-.0375	-.0321	-.0292	-.0313	-.0506	-.0518	-.0566	-.0660
120.000						-.0698								-.0502	
130.000						-.1098								-.0642	
140.000						-.1123								-.0697	
150.000						-.0947								-.0461	
160.000						-.1032								-.0392	
170.000						-.0844								-.0370	
180.000	-.0973	-.0895	-.0975	-.0855	-.0750	-.0876	-.0913	-.0893	-.1032	-.0883	-.0645	-.0609	-.0418	-.0183	.0313

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2955		
70.000							-.3769	-.3316	.0000
80.000							-.4208	-.3846	-.2708
90.000	.0000	.0000	.0000	-.2334	-.2922	.0000	-.4362	-.3646	-.2661
100.000	.0000	.0000	-.1461	-.1735	-.2775	-.3649			
110.000	.0000	-.1010	-.0899	-.1508	-.3071	-.4589			
120.000						-.7734			
130.000						-.5369			
140.000						-.0614			
150.000						.1767			
160.000						.1310			
170.000						-.0447			
180.000	-.0680	.0000	.1748	.2331	.3243	.4976			

DATE 24 MAR 84 TABULATED SOURCE DATA - IA29/OA63

AMES 6A-650 PRESSURE VENTING - INTEG. VEHICLE (RE8026)

MACH (3) = .850 ALPHA (3) = -4.103

SECTION (11068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2982	-.3306	-.6354												
70.000	-.2378	-.3747	-.5588												
80.000	-.2038	-.3841	-.5547												
90.000			-.6788	-.9642	-.6356	-.6390	-.5767	.0000	-.3196	-.2202	-.1349	-.0954	-.0647	-.0587	-.0666
100.000						-.6511	-.5905	-.4802	-.3336	-.2093	-.1574	-.1165	-.0857	-.0907	-.0888
110.000						-.6487	-.5852	-.4577	-.3351	-.2255	-.1654	-.1136	-.1114	-.1035	-.0977
120.000						-.5760								-.1404	
130.000						-.4810								-.1734	
140.000						-.3909								-.1765	
150.000						-.3551								-.1703	
160.000						-.3463								-.1724	
170.000						-.3926								-.1565	
180.000						-.6022	-.1841	-.1591	-.1676	-.1797	-.1451	-.1469	-.1355	-.1435	-.1261

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0548	-.0491	-.0491	-.0440	-.0377	-.0382	-.0304	.0000	-.0341	-.0625	-.0599	-.0954	-.1270	-.1248	-.1725
100.000	-.0938	-.0869	-.0920	-.0783	-.0705	-.0751	-.0791	-.0737	-.0669	-.1028	-.0790	-.1113	-.1263	-.1145	-.1376
110.000	-.0809	-.0812	-.0737	-.0717	-.0575	-.0573	-.0551	-.0453	-.0416	-.0492	-.0567	-.0724	-.0744	-.0822	-.0820
120.000						-.0667								-.0643	
130.000						-.1038								-.0653	
140.000						-.1239								-.0800	
150.000						-.0979								-.0631	
160.000						-.1038								-.0572	
170.000						-.1033								-.0567	
180.000	-.1166	-.1074	-.1178	-.1029	-.0971	-.1011	-.1109	-.1068	-.1214	-.1180	-.0932	-.0925	-.0687	-.0474	.0095

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3189		
70.000							-.4036	-.3040	.0000
80.000							-.4382	-.3933	-.2498
90.000	.0000	.0000	.0000	-.2350	-.3092	.0000	-.4596	-.3773	-.2754
100.000	.0000	.0000	-.1736	-.1822	-.2906	-.3642			
110.000	.0000	-.1201	-.0922	-.1434	-.3073	-.4933			
120.000						-.7732			
130.000						-.5233			
140.000						-.0709			
150.000						.1610			
160.000						.1111			
170.000						-.0537			
180.000	-.0799	.0000	.1451	.2167	.3095	.4780			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (3) = .849 ALPHA (4) = -1.973

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2978	-.3436	-.3863												
70.000	-.2955	-.3073	-.3333												
80.000	-.2949	-.3469	-.3312												
90.000			-.6423	-.9455	-.6200	-.6173	-.5559	-.2496	-.2280	-.1877	-.1161	-.0875	-.0514	-.0423	-.0635
100.000						-.6518	-.5715	-.4127	-.2903	-.1806	-.1165	-.0898	-.0751	-.0794	-.0770
110.000						-.6518	-.5690	-.4515	-.3005	-.1991	-.1294	-.0905	-.0850	-.0874	-.0821
120.000						-.5872								-.1200	
130.000						-.5309								-.1434	
140.000						-.4882								-.1550	
150.000						-.4495								-.1572	
160.000						-.4549								-.1645	
170.000						-.4659								-.1574	
180.000						-.6955	-.2233	-.1513	-.1525	-.1663	-.1476	-.1388	-.1328	-.1367	-.1338

X/L	.4900	.4630	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7190
PHI															
90.000	-.0442	-.0515	-.0510	-.0442	-.0370	-.0384	-.0231	-.0245	-.0329	-.0576	-.0779	-.1044	-.1362	-.1434	-.1232
100.000	-.0758	-.0758	-.0766	-.0700	-.0604	-.0638	-.0610	-.0593	-.0525	-.1022	-.0902	-.1157	-.1387	-.1504	-.1385
110.000	-.0448	-.0734	-.0732	-.0739	-.0688	-.0616	-.0554	-.0613	-.0542	-.0586	-.0824	-.[illegible]	-.[illegible]	-.[illegible]	-.1387
120.000						-.0859								-.0753	
130.000						-.1027								-.[illegible]421	
140.000						-.1132								-.[illegible]46	
150.000						-.1095								-.0824	
160.000						-.1120								.0765	
170.000						-.1164								-.[illegible]777	
180.000	-.1319	-.1191	-.1311	-.1254	-.1080	-.1100	-.1179	-.1223	-.1438	-.1355	-.1147	-.1103	-.0985	-.[illegible]677	-.0151

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3596		
70.000							-.4295	-.3799	-.2163
80.000							-.4805	-.4022	-.2493
90.000	.0000	.0000	.0000	-.2475	-.3155	-.5636	-.4791	-.4155	-.2715
100.000	.0000	.0000	-.1851	-.1935	-.2962	-.4059			
110.000	.0000	-.1355	-.1020	-.1492	-.3104	-.5052			
120.000						-.7525			
130.000						-.5040			
140.000						-.0743			
150.000						.1474			
160.000						.0468			
170.000						-.0633			
180.000	-.0959	.0000	.1298	.1985	.2807	.4598			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8026)

MACH (3) = .847 ALPHA (5) = .210

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2769	-.3541	-.5623												
70.000	-.2477	-.3254	-.5302												
80.000	-.2246	-.3468	-.5229												
90.000			-.6045	-.8906	-.6987	-.5002	-.3537	.0000	-.1444	-.1252	-.0970	-.0765	-.0626	-.0568	-.0900
100.000						-.5341	-.4467	-.2870	-.2026	-.1352	-.1050	-.0778	-.0754	-.0827	-.0858
110.000						-.6566	-.4454	-.3513	-.2639	-.1943	-.1364	-.0946	-.0854	-.1011	-.0861
120.000						-.5925								-.0970	
130.000						-.6605								-.0924	
140.000						-.7265								-.1309	
150.000						-.7727								-.1212	
160.000						-.7905								-.1362	
170.000						-.7830								-.1481	
180.000						-.7343	-.5421	-.3982	-.2892	-.2187	-.1556	-.1510	-.1466	-.1411	-.1382

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0657	-.0553	-.0521	-.0388	-.0323	-.0391	-.0327	.0000	-.0529	-.0782	-.0818	-.1162	-.1573	-.1615	-.1683
100.000	-.0873	-.0788	-.0717	-.0594	-.0434	-.0596	-.0651	-.0585	-.0499	-.1020	-.0799	-.1118	-.1450	-.1332	-.1718
110.000	-.0640	-.0601	-.0560	-.0543	-.0480	-.0599	-.0634	-.0629	-.0647	-.0769	-.0828	-.1116	-.1153	-.1231	-.1405
120.000						-.0671								-.0882	
130.000						-.1128								-.0801	
140.000						-.1301								-.0887	
150.000						-.1205								-.0892	
160.000						-.1239								-.0863	
170.000						-.1278								-.0907	
180.000	-.1221	-.1100	-.1344	-.1257	-.1211	-.1352	-.1387	-.1473	-.1581	-.1642	-.1384	-.1300	- 1103	-.0882	-.0466

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3413		
70.000							-.3882	-.2888	.0000
80.000							-.4419	-.3485	-.2159
90.000	.0000	.0000	.0000	-.2695	-.3398	.0000	-.4510	-.3926	-.2472
100.000	.0000	.0000	-.2045	-.2211	-.3305	-.4190			
110.000	.0000	-.1639	-.1236	-.1756	-.2965	-.5042			
120.000						-.7073			
130.000						-.4781			
140.000						-.0814			
150.000						.1320			
160.000						.0655			
170.000						-.0810			
180.000	-.1319	.0000	.1010	.1636	.2533	.4056			

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (3) = .851 ALPHA (6) = 2.207

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2692	-.3515	-.5000												
70.000	-.2454	-.3217	-.4985												
80.000	-.2147	-.3479	-.5031												
90.000			-.5773	-.8277	-.9895	-.4668	-.3690	.0000	-.1925	-.1583	-.1242	-.1033	-.0740	-.0687	-.0880
100.000						-.5167	-.4559	-.3387	-.2143	-.1389	-.1026	-.0983	-.0745	-.0943	-.0702
110.000						-.6063	-.4605	-.4036	-.3375	-.2273	-.1709	-.1065	-.0904	-.0996	-.0757
120.000						-.6124								-.0779	
130.000						-.6742								-.0810	
140.000						-.7301								-.0902	
150.000						-.7853								-.0988	
160.000						-.8171								-.1193	
170.000						-.8040								-.1357	
180.000						-.7674	-.6496	-.5242	-.3724	-.2905	-.2031	-.1550	-.1338	-.1277	-.1270

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6900	.7100
PHI															
90.000	-.0810	-.0529	-.0498	-.0460	-.0366	-.0447	-.0397	.0000	-.0651	-.0910	-.1122	-.1516	-.1909	-.1919	-.1898
100.000	-.0675	-.0804	-.0727	-.0597	-.0493	-.0672	-.0663	-.0683	-.0534	-.1077	-.0939	-.1432	-.1619	-.1574	-.1786
110.000	-.0669	-.0657	-.0623	-.0580	-.0532	-.0676	-.0646	-.0580	-.0710	-.0844	-.0926	-.1212	-.1364	-.1405	-.1581
120.000						-.0676								-.1227	
130.000						-.1037								-.1022	
140.000						-.1121								-.0946	
150.000						-.1091								-.0988	
160.000						-.1130								-.0995	
170.000						-.1275								-.1036	
180.000	-.1211	-.1163	-.1317	-.1202	-.1190	-.1328	-.1407	-.1504	-.1524	-.1580	-.1516	-.1462	-.1298	-.1066	-.0582

X/L	.7250	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3366		
70.000							-.4017	-.2948	.0000
80.000							-.4500	-.3343	-.2202
90.000	.0000	.0000	.0000	-.2820	-.3478	.0000	-.4539	-.3591	-.2374
100.000	.0000	.0000	-.2207	-.2309	-.3336	-.4288			
110.000	.0000	-.1814	-.1472	-.1798	-.2939	-.5122			
120.000						-.6295			
130.000						-.4430			
140.000						-.0843			
150.000						.0865			
160.000						.0145			
170.000						-.1238			
180.000	-.1519	.0000	.0830	.1377	.2092	.3544			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (3) = .950 ALPHA (7) = 4.381

SECTION (1)OBB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2832	-.3581	-.4457												
70.000	-.2445	-.3201	-.4383												
80.000	-.2277	-.3421	-.4645												
90.000			-.5319	-.7797	-.9758	-.4366	-.3129	.0000	-.1872	-.1959	-.1560	-.1339	-.0954	-.0822	-.0865
100.000						-.4766	-.4139	-.3301	-.2420	-.1681	-.1228	-.1168	-.0904	-.0995	-.0749
110.000						-.5738	-.4592	-.4253	-.3509	-.2478	-.1669	-.1236	-.0899	-.0990	-.0696
120.000						-.6264								-.0754	
130.000						-.6835								-.0892	
140.000						-.7315								-.0911	
150.000						-.7642								-.0889	
160.000						-.7773								-.1223	
170.000						-.7909								-.1434	
180.000						-.7703	-.6842	-.5827	-.4544	-.3633	-.2730	-.1945	-.1586	-.1458	-.1246

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7100
PHI															
90.000	-.0682	-.0576	-.0535	-.0388	-.0383	-.0484	-.0474	-.0390	-.0790	-.1108	-.1223	-.1720	-.2108	-.2214	-.2254
100.000	-.0687	-.0713	-.0684	-.0561	-.0518	-.0634	-.0632	-.0724	-.0638	-.1138	-.1111	-.1619	-.1927	-.1883	-.2063
110.000	-.0528	-.0595	-.0532	-.0542	-.0516	-.0636	-.0707	-.0645	-.0716	-.1000	-.1174	-.1437	-.1512	-.1523	-.1794
120.000						-.0600								-.1353	
130.000						-.0878								-.1197	
140.000						-.1036								-.1194	
150.000						-.1096								-.1130	
160.000						-.1120								-.1174	
170.000						-.1206								-.1211	
180.000	-.1137	-.1101	-.1187	-.1195	-.1178	-.1247	-.1377	-.1490	-.1632	-.1634	-.1556	-.1607	-.1429	-.1182	-.0689

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.3197		
70.000							-.3755	-.2536	.0000
80.000							-.3971	-.2913	-.1979
90.000	.0000	.0000	.0000	-.2951	-.3616	.0000	-.4271	-.3071	-.2085
100.000	.0000	.0000	-.2540	-.2472	-.3398	-.4371			
110.000	.0000	-.2089	-.1663	-.1949	-.2862	-.5238			
120.000						-.5912			
130.000						-.3887			
140.000						-.1279			
150.000						.0169			
160.000						-.0446			
170.000						-.1276			
180.000	-.1761	.0000	.0637	.1039	.1619	.2657			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .850 ALPHA (8) = 6.547

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2911	-.3628	-.3936												
70.000	-.2516	-.3117	-.3587												
80.000	-.2300	-.3388	-.4038												
90.000			-.4697	-.7509	-.9196	-.4062	-.3001	.0000	-.2373	-.2473	-.2170	-.1663	-.1183	-.1024	-.1017
100.000						-.4443	-.3841	-.3312	-.2725	-.2250	-.1927	-.1643	-.1176	-.1277	-.0798
110.000						-.5347	-.4716	-.4578	-.3894	-.3035	-.2172	-.1408	-.0918	-.1041	-.0631
120.000						-.6452								-.0952	
130.000						-.6883								-.0945	
140.000						-.7179								-.1005	
150.000						-.7266								-.1181	
160.000						-.7298								-.1212	
170.000						-.7463								-.1514	
180.000						-.7329	-.7144	-.6222	-.5313	-.4013	-.3467	-.2463	-.1964	-.1634	-.1285

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0643	-.0747	-.0580	-.0539	-.0508	-.0580	-.0485	.0000	-.0854	-.1229	-.1546	-.2134	-.2616	-.2790	-.2556
100.000	-.0614	-.0720	-.0643	-.0592	-.0481	-.0771	-.0757	-.0730	-.0739	-.1356	-.1416	-.1979	-.2354	-.2339	-.2425
110.000	-.0568	-.0594	-.0537	-.0595	-.0667	-.0747	-.0644	-.0739	-.0837	-.1033	-.1460	-.1769	-.1906	-.2050	-.2140
120.000						-.0677								-.1475	
130.000						-.0779								-.1421	
140.000						-.0925								-.1671	
150.000						-.1109								-.1514	
160.000						-.1195								-.1534	
170.000						-.1207								-.1522	
180.000	-.1227	-.1142	-.1191	-.1186	-.1328	-.1268	-.1324	-.1442	-.1637	-.1667	-.1695	-.1725	-.1664	-.1420	-.0931

X/L	.7290	.7470	.7670	.7850	.8030	.82	.8620	.9000	.9400
PHI									
60.000							-.3045		
70.000							-.3717	-.2458	.0000
80.000							-.3973	-.3098	-.2014
90.000	.0000	.0000	.0000	-.3007	-.3611	.0000	-.3726	-.3021	-.2044
100.000	.0000	.0000	-.2472	-.2544	-.3509	-.4506			
110.000	.0000	-.2288	-.1726	-.1949	-.3038	-.5439			
120.000						-.5692			
130.000						-.3435			
140.000						-.1544			
150.000						-.0678			
160.000						-.0883			
170.000						-.1111			
180.000	-.1998	.0000	.0316	.0628	.0920	.1373			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (3) = .851 ALPHA (9) = 8.738

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3026	-.3581	-.3305												
70.000	-.2605	-.3116	-.3159												
80.000	-.2404	-.3404	-.3445												
90.000			-.4041	-.7291	-.8769	-.4264	-.2970	.0000	-.2668	-.2498	-.2261	-.1985	-.1555	-.1350	-.1131
100.000						-.4513	-.3629	-.3437	-.2869	-.239[illegible]	-.2113	-.2058	-.1287	-.1458	-.1020
110.000						-.5465	-.4430	-.4379	-.3532	-.2895	-.2120	-.1750	-.1203	-.1333	-.0866
120.000						-.6480								-.1100	
130.000						-.6853								-.1324	
140.000						-.7272								-.1509	
150.000						-.7202								-.1596	
160.000						-.7170								-.1757	
170.000						-.7316								-.1875	
180.000						-.7413	-.7079	-.6401	-.5759	-.4447	-.3738	-.2851	-.2410	-.1935	-.1483

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0837	-.075[illegible]	-.0655	-.0580	-.0655	-.0797	-.0713	.0000	-.1133	-.1591	-.1900	-.2496	-.2890	-.3129	-.3062
100.000	-.0798	-.0790	-.0693	-.0715	-.0652	-.0951	-.0869	-.0970	-.0913	-.1666	-.1683	-.2291	-.2677	-.2650	-.2872
110.000	-.0667	-.0640	-.0585	-.0652	-.0778	-.0886	-.0781	-.0979	-.0996	-.1243	-.1610	-.1996	-.2169	-.2391	-.2467
120.000						-.0876								-.1798	
130.000						-.0845								-.1693	
140.000						-.0992								-.1783	
150.000						-.1131								-.1678	
160.000						-.1202								-.1839	
170.000						-.1300								-.1915	
180.000	-.1211	-.1175	-.1243	-.1315	-.1315	-.1371	-.1466	-.1659	-.1842	-.1916	-.1947	-.1922	-.1964	-.1939	-.1250

X/L	.7290	.7470	.7670	.7350	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2421		
70.000							-.3062	-.2514	.0000
80.000							-.3513	-.2888	-.2098
90.000	.0000	.0000	.0000	-.3139	-.3680	.0000	-.3719	-.2804	-.2228
100.000	.0000	.0000	-.2955	-.2618	-.3529	-.4470			
110.000	.0000	-.2523	-.1824	-.2045	-.3106	-.5420			
120.000						-.5592			
130.000						-.3041			
140.000						-.1596			
150.000						-.0967			
160.000						-.1011			
170.000						-.0616			
180.000	-.2426	.0000	-.0168	-.0028	.0334	.0472			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .952 ALPHA (1) = -8.441

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1066	-.1614	-.4537												
70.000	-.0987	-.1641	-.3662												
80.000	-.0593	-.2220	-.3835												
90.000			-.5246	-.7720	-.9085	-.7780	-.7798	.0000	-.6986	-.6325	-.5746	-.5103	-.4463	-.3499	-.2047
100.000						-.8176	-.7829	-.7536	-.7087	-.6479	-.5641	-.5213	-.4061	-.3683	-.2908
110.000						-1.1880	-1.1100	-.7447	-.6859	-.6265	-.5631	-.4898	-.6754	-.4315	-.3174
120.000						-.8314								-.7247	
130.000						-.7059								.0000	
140.000						-.5741								.0000	
150.000						-.5566								-.5125	
160.000						-.5499								-.4872	
170.000						-.5751								-.4238	
180.000						-.551[illegible]	-.5093	-.4593	-.4353	-.4391	-.4170	-.3963	-.3753	-.3569	-.3549

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2990	-.1256	-.1858	-.1115	-.0795	-.0372	.0421	.0000	.0153	.0156	.0196	.0020	-.0095	-.0155	-.0326
100.000	-.2760	-.2088	-.1957	-.0948	-.0613	-.0513	-.0071	.0028	.0242	.0098	.0225	.0179	.0097	.0136	.0162
110.000	-.2879	-.2105	-.1672	-.0967	-.0494	-.0160	.0310	.0409	.0645	.0717	.0848	.0689	.0533	.0593	.0601
120.000						-.0158								.0591	
130.000						-.0400								.0420	
140.000						-.0303								.0239	
150.000						-.0339								.0417	
160.000						-.0121								.0574	
170.000						-.0083								.0593	
180.000	-.3515	-.2839	-.1342	-.0778	-.0286	.0032	-.0047	.0151	.0132	.0132	.0328	.0743	.0572	.0774	.1508

X/L	.7290	.7470	.7670	.7850	.8030	.8250	.8620	.9000	.9400
PHI									
60.000							-.1630		
70.000							-.2652	-.3203	.0000
80.000							-.3164	-.3713	-.3307
90.000	-.0179	.1137	-.0350	-.0700	-.1219	.0000	-.2910	-.3302	-.3145
100.000	-.0152	-.0079	-.0306	.0095	-.1002	-.1727			
110.000	.0700	.0553	.0510	.0093	-.1375	-.2719			
120.000						-.6076			
130.000						-.4045			
140.000						.0880			
150.000						.3250			
160.000						.2664			
170.000						.0951			
180.000	.1082	.1077	.2932	.3644	.4471	.5981			

AMES 66-67 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .950 ALPHA (2) = -6.202

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.1287	-.1842	-.4680												
70.000	-.1111	-.1741	-.3867												
80.000	-.0783	-.2261	-.3886												
90.000			-.5106	-.7705	-.7819	-.7139	-.7158	.0000	-.6914	-.5805	-.5697	-.5258	-.4647	-.4474	-.3433
100.000						-.6980	-.7273	-.7090	-.6608	-.6244	-.5764	-.5070	-.4836	-.4280	-.3428
110.000						-.6924	-.7059	-.6861	-.6237	-.5689	-.5754	-.5179	-.4608	-.4088	-.3596
120.000						-.7168								-.4208	
130.000						-.8007								.0000	
140.000						-.6468								.0000	
150.000						-.6271								-.5050	
160.000						-.6073								-.4500	
170.000						-.6502								-.4128	
180.000						-.6232	-.5658	-.5188	-.4956	-.4981	-.4359	-.4268	-.4078	-.3903	-.2036

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2852	-.1869	-.1411	-.0634	-.0233	-.0202	-.0098	.0000	.0242	.0129	.0247	.0064	-.0081	-.0238	-.0234
100.000	-.2804	-.1931	-.1509	-.1008	-.0766	-.0200	-.0183	-.0045	.0092	-.0026	.0100	-.0021	-.0163	-.0134	-.0211
110.000	-.2653	-.2216	-.1701	-.0332	-.0284	-.0282	.0109	.0199	.0324	.0339	.0373	.0353	.0250	.0153	.0265
120.000						-.0074								.0465	
130.000						-.0292								.0332	
140.000						-.0333								.0206	
150.000						-.0414								.0225	
160.000						-.0453								.0276	
170.000						-.0452								.0308	
180.000	-.3229	-.2507	-.0727	-.0653	-.0277	-.0331	-.0326	-.0207	-.0284	-.0193	-.0014	.0018	.0240	.0424	.1002

X/L	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400	
PHI									
80.000						-.2003			
70.000						-.2711	-.3733	.0000	
80.000						-.3136	-.3914	-.3516	
90.000	-.0271	.1188	.0033	-.1071	-.1536	.0000	-.3081	-.3650	-.3463
100.000	-.0393	-.0384	-.0611	-.0550	-.1258	-.2061			
110.000	-.0068	-.0119	.0127	-.0105	-.1397	-.2813			
120.000						-.5754			
130.000						-.3812			
140.000						.0712			
150.000						.3032			
160.000						.2375			
170.000						.0825			
180.000	.0387	.0334	.2309	.3238	.4148	.5667			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .952 ALPHA (3) = -4.083

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1386	-.1956	-.4654												
70.000	-.1225	-.1780	-.3921												
80.000	-.0924	-.2295	-.3853												
90.000			-.4895	-.7598	-.8379	-.6965	-.6652	.0000	-.6443	-.6333	-.6198	-.5789	-.4673	-.4544	-.3413
100.000						-.6799	-.6775	-.7248	-.6878	-.5948	-.6066	-.5576	-.4927	-.4362	-.3441
110.000						-.7761	-.6967	-.7005	-.6936	-.6414	-.6011	-.4762	-.4616	-.4010	-.3511
120.000						-.8742								-.3891	
130.000						-.8836								.0000	
140.000						-.7040								.0000	
150.000						-.6686								-.5015	
160.000						-.6494								-.5132	
170.000						-.6975								-.4814	
180.000						-.6744	-.6458	-.5876	-.5506	-.5482	-.5121	-.4261	-.4434	-.4574	-.2955

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2354	-.1599	-.1133	-.0679	-.0164	.0103	.0192	.0000	.0397	.0332	.0267	.0087	-.0125	-.0154	-.0259
100.000	-.2632	-.1733	-.1413	-.0722	-.0616	-.0298	-.0085	-.0039	.0262	.0058	.0072	-.0019	-.0200	-.0260	-.0365
110.000	-.2314	-.2236	-.1044	-.0717	-.0502	-.0341	.0217	.0178	.0224	.0236	.0116	.0049	.0084	.0019	-.0035
120.000						-.0420								.0366	
130.000						-.0965								.0597	
140.000						-.0176								.0236	
150.000						-.0277								.0234	
160.000						-.0401								.0265	
170.000						-.0314								.0212	
180.000	-.1831	-.2850	-.0961	-.0425	-.0494	-.0338	-.0383	-.0268	-.0399	-.0326	-.0252	-.0183	.0014	.0213	.0765

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.2172		
70.000							-.2748	-.3434	.0000
80.000							-.3088	-.4031	-.3618
90.000	.0430	.0983	.0575	-.1062	-.1620	.0000	-.3159	-.3916	-.3667
100.000	-.0363	-.0451	-.0601	-.0591	-.1337	-.2202			
110.000	-.0259	-.0131	.0169	-.0129	-.1374	-.2788			
120.000						-.5191			
130.000						-.3436			
140.000						.0698			
150.000						.2787			
160.000						.2169			
170.000						.0806			
180.000	.0149	.0208	.2358	.3011	.3706	.5232			

AMES 68-6?) PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .950 ALPHA (2) = -6.202

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1287	-.1842	-.4680												
70.000	-.1111	-.1741	-.3867												
80.000	-.0783	-.2261	-.3886												
90.000			-.5106	-.7705	-.7819	-.7139	-.7158	.0000	-.6914	-.5805	-.5697	-.5258	-.4647	-.4474	-.3433
100.000						-.6980	-.7273	-.7090	-.6608	-.6244	-.5764	-.5070	-.4836	-.4280	-.3428
110.000						-.6924	-.7059	-.6861	-.6237	-.5689	-.5754	-.5179	-.4608	-.4088	-.3596
120.000						-.7168								-.4208	
130.000						-.8007								.0000	
140.000						-.6468								.0000	
150.000						-.6271								-.5050	
160.000						-.6073								-.4500	
170.000						-.6502								-.4128	
180.000						-.6232	-.5658	-.5188	-.4956	-.4981	-.4359	-.4268	-.4078	-.3903	-.2036

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	-.2852	-.1869	-.1411	-.0634	-.0233	-.0202	-.0093	.0000	.0242	.0129	.0247	.0064	-.0081	-.0238	-.0234
100.000	-.2804	-.1951	-.1509	-.1008	-.0766	-.0203	-.0183	-.0345	.0092	-.0026	.0100	-.0021	-.0163	-.0134	-.0211
110.000	-.2655	-.2216	-.1701	-.0332	-.0284	-.0062	.0109	.0199	.0324	.0339	.0373	.0353	.0250	.0153	.0265
120.000						-.0074								.0465	
130.000						-.0292								.0332	
140.000						-.0333								.0206	
150.000						-.0414								.0225	
160.000						-.0453								.0276	
170.000						-.0402								.0308	
180.000	-.3279	-.2507	-.0727	-.0653	-.0277	-.0331	-.0326	-.0207	-.0284	-.0193	-.0014	.0018	.0240	.0424	.1002

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.2003		
70.000							-.2711	-.3333	.0000
80.000							-.3136	-.3914	-.3516
90.000	-.0271	.1188	.0033	-.1071	-.1536	.0000	-.3081	-.3650	-.3463
100.000	-.0393	-.0384	-.0611	-.0550	-.1258	-.2061			
110.000	-.0088	-.0119	.0127	-.0105	-.1397	-.2813			
120.000						-.5754			
130.000						-.3812			
140.000						.0712			
150.000						.3032			
160.000						.2375			
170.000						.0825			
180.000	.0387	.0334	.2505	.3238	.4146	.5667			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB\26)

MACH (4) = .952 ALPHA (3) = -4.063

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1388	-.1956	-.4654												
70.000	-.1225	-.1780	-.3921												
80.000	-.0924	-.2295	-.3853												
90.000			-.4895	-.7598	-.8379	-.6965	-.6652	.0000	-.6443	-.6333	-.6198	-.5789	-.4673	-.4544	-.3419
100.000						-.6799	-.6775	-.7248	-.6878	-.5948	-.6066	-.5576	-.4927	-.4362	-.3441
110.000						-.7761	-.6967	-.7005	-.6936	-.6414	-.6011	-.4762	-.4616	-.4010	-.3519
120.000						-.8742								-.3891	
130.000						-.8836								.0000	
140.000						-.7040								.0000	
150.000						-.6686								-.5015	
160.000						-.5494								-.5132	
170.000						-.6975								-.4813	
180.000						-.6744	-.6458	-.5876	-.5506	-.5482	-.5121	-.4261	-.4434	-.4534	-.2955

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2354	-.1599	-.1133	-.0679	-.0164	.0103	.0192	.0000	.0397	.0332	.0267	.0087	-.0125	-.0154	-.0259
100.000	-.2632	-.1733	-.1413	-.0722	-.0616	-.0298	-.0085	-.0039	.0262	.0058	.0072	-.0019	-.0200	-.0250	-.0365
110.000	-.2314	-.2236	-.1044	.0717	-.0502	-.0341	.0217	.0178	.0224	.0236	.0116	.0089	.0084	.0019	-.0035
120.000						-.0020								.0366	
130.000						-.0060								.0397	
140.000						-.0176								.0296	
150.000						-.0277								.0234	
160.000						-.0401								.0260	
170.000						-.0314								.0212	
180.000	-.1831	-.2850	-.0961	-.0425	-.0494	-.0338	-.0389	-.0268	-.0399	-.0326	-.0282	-.0183	.0014	.0289	.0765

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2172		
70.000							-.2748	-.3434	.0000
80.000							-.3088	-.4031	-.3618
90.000	.0430	.0985	.0575	-.1062	-.1620	.0000	-.3159	-.3916	-.3667
100.000	-.0383	-.0451	-.0601	-.0591	-.1337	-.2202			
110.000	-.0249	-.0131	.0169	-.0129	-.1374	-.2788			
120.000						-.5191			
130.000						-.3436			
140.000						.0698			
150.000						.2787			
160.000						.2169			
170.000						.0806			
180.000	.0149	.0206	.2358	.3011	.3706	.5232			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .951 ALPHA (4) = -1.991

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1613	-.2193	-.4823												
70.000	-.1394	-.1933	-.4967												
80.000	-.1129	-.2237	-.3958												
90.000			-.4837	-.7585	-.8849	-.6824	-.6787	.0000	-.6890	-.6688	-.6104	-.5047	-.4203	-.4326	-.3303
100.000						-.7094	-.7071	-.6679	-.7191	-.6972	-.5839	-.5052	-.4627	-.3976	-.2841
110.000						-.7638	-.6948	-.7222	-.6852	-.6428	-.5798	-.5051	-.3933	-.3952	-.3123
120.000						-.7722								-.3493	
130.000						-.9379								.0000	
140.000						-.7780								.0000	
150.000						-.7128								-.4690	
160.000						-.6995								-.4539	
170.000						-.7535								-.4831	
180.000						-.7255	-.6825	-.6306	-.6003	-.5892	-.4937	-.4160	-.4678	-.4541	-.4072

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6550	.6730	.6880	.7100
PHI															
90.000	-.2235	-.0942	-.1002	-.0691	.0196	.0193	.0394	.0000	.0505	.0355	.0290	.0004	-.0286	-.0252	-.0370
100.000	-.2381	-.1267	-.1052	-.0556	-.0298	.0174	.0187	.0264	.0302	.0085	.0150	-.0141	-.0252	-.0187	-.0474
110.000	-.2146	-.1380	-.0717	-.0487	-.0146	.0163	.0199	.0230	.0211	.0134	.0054	-.0079	-.0156	-.0218	-.0313
120.000						.0205								.0268	
130.000						.0020								.0309	
140.000						-.0023								.0247	
150.000						-.0079								.0177	
160.000						-.0139								.0107	
170.000						-.0262								-.0026	
180.000	-.2343	-.0726	-.1083	-.0779	-.0358	-.0398	-.0359	-.0374	-.0423	-.0442	-.0394	-.0379	-.0192	-.0047	.0506

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2309		
70.000							-.2743	-.3606	.0000
80.000							-.3096	-.4170	-.3881
90.000	.0240	.0701	.1089	-.1132	-.1670	.0000	-.3172	-.4167	-.4001
100.000	-.0631	-.0663	-.0675	-.0751	-.1458	-.2302			
110.000	-.0428	-.0437	.0030	-.0262	-.1242	-.2928			
120.000						-.4911			
130.000						-.3161			
140.000						.0656			
150.000						.2607			
160.000						.1963			
170.000						.0665			
180.000	-.0108	-.0028	.2086	.2786	.3529	.4891			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8026)

MACH (4) = .951 ALPHA (5) = .238

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	-.1849	-.2297	-.4849												
70.000	-.1589	-.2037	-.4052												
80.000	-.1310	-.2215	-.3891												
90.000			-.4589	-.7427	-.8337	-.6931	-.6849	.0000	-.6411	-.5843	-.5269	-.5059	-.3710	-.3343	-.1817
100.000						-.6599	-.7462	-.7359	-.6712	-.6269	-.5670	-.4729	-.4311	-.3811	-.2352
110.000						-.7169	-.6950	-.7236	-.6406	-.6488	-.5915	-.5047	-.4180	-.3684	-.2694
120.000						-.7311								-.3233	
130.000						-.9223								.0000	
140.000						-.8448								.0000	
150.000						-.7670								-.3715	
160.000						-.7446								-.337	
170.000						-.7930								-.4010	
180.000						-.7766	-.7337	-.6666	-.6372	-.5937	-.5402	-.4994	-.3787	-.3545	-.2086

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6363	.6540	.6730	.6840	.7100
PHI															
90.000	-.1398	-.0455	-.0226	.0277	.0480	.0484	.0637	.0000	.0458	.0222	.0119	-.0197	-.0545	-.0636	-.0547
100.000	-.1542	-.0794	-.0159	.0094	.0342	.0386	.0347	.0381	.0381	-.0009	.0133	-.0219	-.0450	-.0419	-.0540
110.000	-.1565	-.1105	-.0257	.0113	.0133	.0190	.0350	.0338	.0217	.0116	-.0002	-.0183	-.0393	-.0460	-.0406
120.000						.0333								-.0053	
130.000						.0181								.0037	
140.000						.0085								.0051	
150.000						-.0012								.0042	
160.000						-.0089								-.0094	
170.000						-.0144								-.0237	
180.000	-.2705	-.0947	-.0838	-.0550	-.0351	-.0277	-.0397	-.0440	-.0596	-.0650	-.0585	-.0653	-.0519	-.0348	.0253

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2363		
70.000							-.2919	-.3718	.0000
80.000							-.3182	-.4353	-.4434
90.000	.0136	.0524	.1166	-.1387	-.1856	.0000	-.3363	-.4348	-.4513
100.000	-.0858	-.0752	-.0861	-.0955	-.1685	-.2443			
110.000	-.0564	-.0459	-.0093	-.0431	-.1247	-.2905			
120.000						-.4235			
130.000						-.2891			
140.000						.0602			
150.000						.2397			
160.000						.1551			
170.000						.0510			
180.000	-.0256	-.0178	.1739	.2358	.3085	.4356			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .950 ALPHA (6) = 2.326

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2080	-.2661	-.3017												
70.000	-.1889	-.2328	-.4199												
80.000	-.1612	-.2938	-.4093												
90.000			-.4662	-.7383	-.9109	-.7575	-.7040	.0000	-.5927	-.5852	-.4587	-.4013	-.2877	-.2128	-.1598
100.000						-.6780	-.6768	-.6886	-.6864	-.5700	-.5365	-.4153	-.3100	-.2426	-.1886
110.000						-.7334	-.7252	-.7004	-.6264	-.5688	-.4987	-.3630	-.3385	-.3033	-.1742
120.000						-.7896								-.2877	
130.000						-1.0030								.0000	
140.000						-.9042								.0000	
150.000						-.7971								-.2483	
160.000						-.7877								-.2994	
170.000						-.8366								-.3390	
180.000						-.8200	-.7758	-.7240	-.6700	-.6440	-.6122	-.4527	-.2857	-.3709	-.1514

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0381	-.0097	.0132	.0351	.0539	.0457	.0526	.0000	.0270	-.0025	-.0155	-.0603	-.1054	-.1013	-.1009
100.000	-.0698	-.0011	-.0042	.0472	.0498	.0373	.0396	.0333	.0330	-.0172	-.0126	-.0525	-.0769	-.0742	-.0893
110.000	-.1071	-.0489	.0038	.0221	.0382	.0402	.0318	.0306	.0202	.0040	-.0119	-.0374	-.0545	-.0635	-.0715
120.000						.0394								-.0313	
130.000						.0171								-.0279	
140.000						.0060								-.0139	
150.000						-.0025								-.0230	
160.000						-.0066								-.0254	
170.000						-.0201								-.0479	
180.000	-.0793	-.0590	-.0525	-.0398	-.0345	-.0310	-.0481	-.0528	-.0699	-.0836	-.0835	-.0867	-.0830	-.0647	-.0108

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2537		
70.000							-.3108	-.3919	.0000
80.000							-.3390	-.4531	-.4716
90.000	-.0202	.0166	.0855	-.1485	-.2065	.0000	-.3501	-.4559	-.4818
100.000	-.1275	-.1196	-.1134	-.1055	-.1894	-.2659			
110.000	-.0884	-.0787	-.0306	-.0553	-.1337	-.3096			
120.000						-.4058			
130.000						-.2759			
140.000						.0519			
150.000						.1834			
160.000						.1010			
170.000						.0177			
180.000	-.0590	-.0380	.1489	.1985	.2918	.3845			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (6) = .951 ALPHA (7) = 4.456

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
65.000	-.2494	-.2875	-.3198												
70.000	-.2217	-.2492	-.4331												
80.000	-.1926	-.2875	-.3775												
90.000			-.4562	-.7141	-.9262	-.7968	-.6377	.0000	-.5743	-.5418	-.4301	-.3255	-.2155	-.1793	-.1005
100.000						-.9644	-.7262	-.7199	-.6310	-.5377	-.4572	-.3724	-.2641	-.2066	-.1787
110.000						-.6924	-.7534	-.6959	-.6988	-.5288	-.4643	-.3798	-.2785	-.2188	-.1946
120.000						-.9673								-.2236	
130.000						-1.0520								.0000	
140.000						-.9454								.0000	
150.000						-.8561								-.2267	
160.000						-.8262								-.2413	
170.000						-.8713								-.2037	
180.000						-.8474	-.6299	-.7617	-.7254	-.6776	-.5171	-.4765	-.3779	-.2855	-.1381

X/L	.4500	.4680	.4860	.5050	.5250	.5460	.5610	.5850	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.0367	-.0037	.0187	.0561	.0488	.0450	.0442	.0279	.0174	-.0111	-.0329	-.0685	-.1312	-.1509	-.1464
100.000	-.0582	-.0085	.0101	.0266	.0476	.0415	.0285	.0212	.0253	-.0297	-.0291	-.0769	-.1553	-.1905	-.1830
110.000	-.0308	.0079	.0414	.0362	.0510	.0414	.0362	.0309	.0220	-.0012	-.0227	-.0553	-.0742	-.0874	-.0959
120.000						.0459								-.0455	
130.000						.0245								-.0453	
140.000						.0082								-.0545	
150.000						.0046								-.0492	
160.000						-.0104								-.0579	
170.000						-.0195								-.0731	
180.000	-.1045	-.0708	-.0366	-.0258	-.0198	-.0326	-.0509	-.0125	-.0709	-.0732	-.0476	-.0962	-.0954	-.0854	-.0823

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9470
PHI									
60.000							-.2468		
70.000							-.3093	-.4050	.0000
80.000							-.3268	-.4654	-.4924
90.000	-.0400	.0040	.0788	-.1567	-.2362	.0000	-.3374	-.4672	-.4903
100.000	-.1619	-.1522	-.1227	-.1144	-.1834	-.2728			
110.000	-.1178	-.0987	.0365	-.0559	-.1430	-.3521			
120.000						-.3953			
130.000						-.2172			
140.000						.0551			
150.000						.1311			
160.000						.1121			
170.000						.0264			
180.000	-.0788	-.0522	.1273	.1601	.1938	.2795			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .949 ALPHA (8) = 6.708

SECTION (1)ORB. FUSELAGE DEPENDENT VARIBLE CP

X/L	.3870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.2794	-.3100	-.5074												
70.000	-.2509	-.2591	-.4332												
80.000	-.2220	-.2719	-.4069												
90.000			-.4233	-.6730	-.7870	-.8275	-.8427	.0000	-.5500	-.4269	-.3604	-.2570	-.1711	-.1183	-.0840
100.000						-.8217	-.8624	-.8636	-.5767	-.4445	-.3951	-.2809	-.2015	-.1528	-.0557
110.000						-.9177	-.8660	-.7511	-.5801	-.5257	-.4132	-.2895	-.1845	-.1411	-.0229
120.000						-1.0030								-.1454	
130.000						-1.0770								.0000	
140.000						-.9977								.0000	
150.000						-.8536								-.2274	
160.000						-.8584								-.2416	
170.000						-.9008								-.2269	
180.000						-.9064	-.8728	-.7856	-.7391	-.6851	-.5632	-.4125	-.2902	-.2785	-.1790

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0310	.0120	.0156	.0221	.0216	.0265	.0377	.0000	.0116	-.0268	-.0763	-.1346	-.1897	-.1975	-.1929
100.000	-.0055	.0125	.0318	.0209	.0378	.0134	.0283	.0237	.0160	-.0415	-.0622	-.1175	-.1675	-.1668	-.1829
110.000	-.0037	.0351	.0303	.0470	.0320	.0270	.0322	.0324	.0119	-.0048	-.0553	-.0968	-.1204	-.1402	-.1462
120.000						.0400								-.0924	
130.000						.0365								-.0868	
140.000						.0136								-.1097	
150.000						-.0041								-.1134	
160.000						-.0197								-.1124	
170.000						-.0084								-.1322	
180.000	-.1105	-.0904	-.0690	-.0331	-.0261	-.0239	-.0310	-.0446	-.0671	-.0876	-.1163	-.1412	-.1561	-.1514	-.0955

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.2855		
70.000							-.3322	-.4399	.0000
80.000							-.3532	-.5087	-.5281
90.000	-.0944	-.0505	.0340	-.1536	-.2058	.0000	-.3606	-.5092	-.5143
100.000	-.2146	-.1744	-.1267	-.0958	-.1822	-.3081			
110.000	-.1605	-.1168	-.0281	-.0380	-.1397	-.3782			
120.000						-.4149			
130.000						-.1732			
140.000						.0162			
150.000						.0642			
160.000						.0176			
170.000						.0814			
180.000	-.1036	-.0636	.0643	.1054	.1232	.0931			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (4) = .949 ALPHA (9) = 8.769

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.3109	-.3386	-.2870												
70.000	-.2733	-.2873	-.3034												
80.000	-.2543	-.2865	-.3146												
90.000			-.3162	-.5242	-.8150	-.8794	-.8490	.0000	-.4542	-.4345	-.3984	-.3218	-.1848	-.1164	-.1018
100.000						-.8837	-.8875	-.6069	-.5101	-.4834	-.4090	-.3184	-.1802	-.1316	-.0699
110.000						-.9485	-.7786	-.5693	-.5556	-.5173	-.4412	-.3359	-.1985	-.1320	-.0409
120.000						-.9076								-.1536	
130.000						-1.0580								.0000	
140.000						-1.0040								.0000	
150.000						-.8717								-.2153	
160.000						-.8912								-.2560	
170.000						-.9272								-.2457	
180.000						-.9435	-.8969	- 8290	-.7317	-.5990	-.4692	-.3325	-.2859	-.2707	-.1886

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0539	-.0135	-.0048	.0099	.0126	.0005	.0036	.0000	-.0358	-.0775	-.1088	-.1674	-.2213	-.2416	-.2456
100.000	-.0241	-.0099	-.0075	.0147	.0198	.0022	-.0094	-.0236	-.0219	-.0236	-.0883	-.1488	-.1918	-.2040	-.2244
110.000	.0017	.0053	.0321	.0306	.0261	.0109	.0046	-.0065	-.0188	-.0421	-.0817	-.1237	-.1459	-.1744	-.1911
120.000						.0444								-.1200	
130.000						.0213								-.1112	
140.000						.0147								-.1327	
150.000						.0046								-.1500	
160.000						-.0251								-.1383	
170.000						-.0219								-.1661	
180.000	-.1473	-.1047	-.0378	-.0265	-.0178	-.0387	-.0653	-.0787	-.1061	-.1253	-.1408	-.1652	-.1842	-.1959	-.1784

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.3141		
70.000							-.3594	-.4685	.0000
80.000							-.3834	-.5319	-.5490
90.000	-.1559	-.1324	-.0757	-.1973	-.2500	.0000	-.3844	-.5323	-.5353
100.000	-.2754	-.2251	-.1862	-.1372	-.2244	-.3266			
110.000	-.2195	-.1698	-.0665	-.0755	-.1629	-.3978			
120.000						-.4054			
130.000						-.1605			
140.000						.0204			
150.000						.0670			
160.000						.0482			
170.000						.1515			
180.000	-.1622	-.1136	-.0157	.0272	.0716	.0312			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (5) = 1.048 ALPHA (1) = -8.351

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0272	-.0137	-.2891												
70.000	.0371	-.0181	-.2103												
80.000	.0685	-.0714	-.2162												
90.000			-.3417	-.5729	-.7506	-.7760	-.7649	.3000	-.6360	-.4804	-.3983	-.3478	-.2980	-.2821	-.2591
100.000						-.7748	-.8000	-.7312	-.6802	-.5975	-.4547	-.3865	-.3363	-.3353	-.2790
110.000						-.9533	-.8874	-.7809	-.7415	-.7162	-.6672	-.6205	-.6138	-.6138	-.4897
120.000						-.6821								-.6538	
130.000						-.5556								-.5590	
140.000						-.4207								-.4809	
150.000						-.4002								-.4127	
160.000						-.3851								-.3564	
170.000						-.4259								-.3014	
180.000						-.4127	-.3543	-.3120	-.2962	-.2974	-.2713	-.2589	-.2501	-.2499	-.2495

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2267	-.2177	-.2064	-.1796	-.1237	-.0655	-.0243	.0000	.0359	.0469	.0643	.0541	.0491	.0678	.0941
100.000	-.2712	-.2893	-.3023	-.2732	-.2430	-.1900	-.1267	-.0746	-.0187	-.0177	.0272	.0245	.0316	.0516	.0576
110.000	-.4030	-.3461	-.2943	-.2623	-.1934	-.1149	-.0593	-.0128	.0330	.0660	.0874	.1019	.1183	.1246	.1453
120.000						-.1645								.1443	
130.000						-.2584								.1258	
140.000						-.3020								.1073	
150.000						-.3073								.1091	
160.000						-.3403								.1130	
170.000						-.3099								.1188	
180.000	-.2539	-.2632	-.2589	-.2675	-.2644	-.2733	-.2829	-.2570	-.2108	-.1241	.0051	.0478	.0895	.1176	.1856

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0314		
70.000							-.1368	-.1835	.0000
80.000							-.2182	-.3071	-.2574
90.000	.0000	.0000	.0000	-.0018	-.0482	.0000	-.2174	-.2898	-.2336
100.000	.0000	.0000	.0831	.0979	.0307	-.0348			
110.000	.0000	.1025	.1663	.1304	.0208	-.1267			
120.000						-.4079			
130.000						-.2445			
140.000						.1932			
150.000						.4233			
160.000						.3364			
170.000						.1835			
180.000	.1375	.0000	.3508	.4222	.5002	.6478			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.052 ALPHA (2) = -6.161

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.0173	-.0249	-.2866												
70.000	.0299	-.0253	-.2185												
80.000	.0379	-.0669	-.2135												
90.000			-.3213	-.5641	-.7535	-.7848	-.7530	.0000	-.6470	-.4668	-.3868	-.3422	-.3158	-.2906	-.2684
100.000						-.7854	-.7776	-.7538	-.6814	-.5811	-.4540	-.3668	-.3472	-.3440	-.2891
110.000						-.9415	-.8629	-.7804	-.6972	-.6738	-.6175	-.5584	-.5403	-.5634	- .[illegible]
120.000						-.7159								-.6362	
130.000						-.6247								-.5762	
140.000						-.4[illegible]								-.5[illegible]54	
150.000						-.445[illegible]								-.44[illegible]2	
160.000						-.4271								-.3[illegible]63	
170.000						-.4773								-.3[illegible]59	
180.000						-.4614	-.3915	-.3464	-.3263	-.3[illegible]	-.3[illegible]	-.2931	-.2[illegible]	-.2[illegible]	-.2851

X/L	.4500	.4680	.4860	.5050	.5240	.5[illegible]	.5[illegible]	.5[illegible]	.5[illegible]	.6[illegible]	.6[illegible]	.6[illegible]	.6[illegible]	.6[illegible]	.7[illegible]
PHI															
90.000	-.2369	-.2[illegible]	-.1731	-.1318	-.0748	-.[illegible]	.0[illegible]	.0[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	[illegible]
100.000	-.2738	-.2538	-.2[illegible]	-.2[illegible]	-.1[illegible]	-.1[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]
110.000	-.4[illegible]	-.3[illegible]	-.2[illegible]	-.2[illegible]	-.1[illegible]	-.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]
120.000						-.0947								.[illegible]	
130.000						-.17[illegible]								.1332	
140.000						-.2[illegible]								.1[illegible]44	
150.000						-.2[illegible]								.1[illegible]56	
160.000						-.3[illegible]								.1[illegible]14	
170.000						-.3[illegible]								.[illegible]	
180.000	-.2790	-.2943	-.2842	-.2890	-.2918	-.3[illegible]	-.3[illegible]	-.2667	-.1919	-.1[illegible]	-.[illegible]	[illegible]56	.[illegible]78	.[illegible]	.1[illegible]

X/L	.7290	.7470	.7670	.7850	.8030	.8[illegible]	.8[illegible]	.9[illegible]	.94[illegible]
PHI									
60.000							-.[illegible]77		
70.000							-.1[illegible]3	-.1763	.0000
80.000							-.1767	-.2825	-.2421
90.000	.0000	.0000	.0000	.0009	-.0508	.0000	-.1976	-.2821	-.2712
100.000	.0000	.0000	.0818	.0708	.0168	-.0314			
110.000	.0000	.0735	.0674	.1239	.0366	-.1[illegible]75			
120.000						-.3634			
130.000						-.1[illegible]58			
140.000						.2[illegible]18			
150.000						.4263			
160.000						.3[illegible]7			
170.000						.1964			
180.000	.1243	.0000	.3238	.3933	.4808	.6259			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (5) = 1.040 ALPHA (3) = -4.072

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0188	-.0587	-.3133												
70.000	-.0013	-.0458	-.2423												
80.000	.0259	-.0886	-.2353												
90.000			-.3338	-.5788	-.7835	-.8176	-.8053	.0000	-.6875	-.5083	-.4208	-.3674	-.3240	-.2991	-.2519
100.000						-.8187	-.8170	-.8081	-.7471	-.5975	-.4763	-.4250	-.3683	-.3611	-.2848
110.000						-.9598	-.9066	-.8161	-.7348	-.6939	-.5824	-.5242	-.5120	-.5086	-.4359
120.000						-.7670								-.6112	
130.000						-.7055								-.6165	
140.000						-.5692								-.5516	
150.000						-.5118								-.4900	
160.000						-.4959								-.4378	
170.000						-.5404								-.5076	
180.000						-.5334	-.4750	-.4310	-.4091	-.3954	-.3691	-.3508	-.3362	-.3371	-.3398

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2176	-.1814	-.1465	-.0997	-.0618	-.0134	.0169	.0000	.0581	.0533	.0670	.0524	.0241	.0325	.0624
100.000	-.2553	-.2114	-.1777	-.1445	-.1134	-.0789	-.0538	-.0238	.0040	-.0219	-.0205	-.0129	-.0011	.0169	.0159
110.000	-.3714	-.2992	-.2537	-.1783	-.1347	-.1001	-.0737	-.0442	-.0236	-.0181	-.0032	-.0070	.0033	.0284	.0363
120.000						-.0711								.0483	
130.000						-.1086								.0090	
140.000						-.1578								.0812	
150.000						-.2040								.0698	
160.000						-.2526								.0552	
170.000						-.3270								.0404	
180.000	-.3419	-.3590	-.3512	-.3546	-.3447	-.3532	-.3294	-.2912	-.0947	-.0386	-.0122	-.0167	-.0079	.0264	.1060

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0744		
70.000							-.1512	-.2142	.0000
80.000							-.2006	-.3045	-.2901
90.000	.0000	.0000	.0000	-.0160	-.0761	.0000	-.2246	-.3110	-.3131
100.000	.0000	.0000	.0406	.0343	-.0330	-.0823			
110.000	.0000	.0452	.1205	.0969	.0054	-.1470			
120.000						-.3887			
130.000						-.2079			
140.000						.1783			
150.000						.3800			
160.000						.2814			
170.000						.1599			
180.000	.0593	.0000	.2798	.3471	.4246	.5621			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (5) = 1.033 ALPHA (4) = -1.946

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0100	-.0455	-.2849												
70.000	.0076	-.0230	-.2161												
80.000	.0340	-.0941	-.2038												
90.000			-.2828	-.5330	-.7445	-.7787	-.7864	.0000	-.6290	-.4700	-.3951	-.3349	-.2795	-.2463	-.2051
100.000						-.7789	-.7998	-.7903	-.7406	-.5325	-.4363	-.3840	-.3166	-.2953	-.2217
110.000						-.7954	-.8749	-.8059	-.7171	-.6190	-.4965	-.4384	-.4159	-.4008	-.3360
120.000						-.7441								-.4305	
130.000						-.7055								-.5770	
140.000						-.5963								-.5303	
150.000						-.5099								-.4721	
160.000						-.4948								-.427	
170.000						-.5393								-.3762	
180.000						-.5349	-.5040	-.4549	-.4304	-.4168	-.3907	-.3529	-.3316	-.3293	-.3287

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1588	-.1395	-.0961	-.0477	-.0081	.0134	.0600	.0000	.0693	.0799	.0652	.0376	.0114	.0141	.0424
100.000	-.1863	-.1595	-.1291	-.0861	-.0440	-.0253	.0780	.0218	.0524	.0220	.0387	.0143	.0024	.0218	.0242
110.000	-.3024	-.2484	-.1858	-.1289	-.1103	-.0738	-.0445	-.0274	-.0036	.0006	-.0089	-.0207	-.0120	-.0076	.0140
120.000						-.0356								.0801	
130.000						-.0460								.0724	
140.000						-.0843								.0713	
150.000						-.1285								.0577	
160.000						-.1705								.0344	
170.000						-.2221								.0168	
180.000	-.3510	-.3864	-.3597	-.3614	-.3508	-.2635	-.1967	-.1167	-.0519	-.0031	-.0295	-.0162	-.0211	-.0131	.0184

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0770		
70.000							-.1404	-.2133	.0000
80.000							-.1783	-.2835	-.2869
90.000	.0000	.0000	.0000	.0376	-.0481	.0000	-.2038	-.2920	-.3016
100.000	.0000	.0000	.0624	.0464	-.0278	-.0772			
110.000	.0000	.0642	.0570	.1109	.0168	-.1131			
120.000						-.3290			
130.000						-.1573			
140.000						.2009			
150.000						.3773			
160.000						.2636			
170.000						.1531			
180.000	.3458	.0000	.2566	.3394	.3923	.5236			

AMES 66-63C PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (5) = 1.047 ALPHA (5) = .225

SECTION (1)CAB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0512	-.0847	-.3177												
70.000	-.0268	-.0598	-.2437												
80.000	-.0008	-.1188	-.2298												
90.000			-.2934	-.5507	-.7666	-.8037	-.7959	.0000	-.5995	-.4600	-.3822	-.3205	-.2458	-.2200	-.1810
100.000						-.8035	-.8102	-.8018	-.7225	-.4762	-.4025	-.3475	-.2715	-.2543	-.1886
110.000						-.9185	-.8728	-.8264	-.7234	-.5352	-.4530	-.3928	-.3511	-.3394	-.2793
120.000						-.7894								-.3132	
130.000						-.7727								-.4477	
140.000						-.6763								-.5481	
150.000						-.5798								-.5058	
160.000						-.5669								-.4653	
170.000						-.6067								-.4169	
180.000						-.6042	-.5595	-.5068	-.4754	-.4611	-.4244	-.3880	-.3729	-.3742	-.3796

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	-.1341	-.0976	-.0515	-.0128	.0185	.0356	.0617	.0000	.0733	.0508	.0444	.0015	-.0383	-.0445	-.0267
100.000	-.1697	-.1274	-.0867	-.0442	-.0094	.0139	.0235	.0465	.0634	.0152	.0383	.0002	-.0273	-.0343	-.0186
110.000	-.2235	-.1883	-.1469	-.0917	-.0656	-.0344	-.0152	.0068	.0099	.0002	.0023	-.0134	-.0292	-.0361	-.0261
120.000						-.0247								.0349	
130.000						-.0255								.0444	
140.000						-.0416								.0467	
150.000						-.0608								.0353	
160.000						-.0931								.0204	
170.000						-.1248								-.0096	
180.000	-.3815	-.3957	-.3838	-.3344	-.2524	-.1727	-.1044	-.0367	-.0242	-.0212	-.0111	-.0222	-.0349	-.0339	.0333

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0828		
70.000							-.1396	-.2237	.0000
80.000							-.1787	-.2880	-.3040
90.000	.0000	.0000	.0000	-.0438	-.0988	.0000	-.2047	-.3026	-.3058
100.000	.0000	.0000	.0042	.0006	-.0816	-.1215			
110.000	.0000	.0140	.0773	.0588	-.0214	-.1621			
120.000						-.2811			
130.000						-.1485			
140.000						.2056			
150.000						.3385			
160.000						.2303			
170.000						.0944			
180.000	.0022	.0000	.2170	.2712	.3339	.4588			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.046 ALPHA (6) = 2.421

SECTION (1):ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0815	-.1150	-.3450												
70.000	-.0819	-.0460	-.2655												
80.000	-.0337	-.1587	-.2430												
90.000			-.2879	-.5494	-.7610	-.7859	-.7812	.0000	-.5667	-.4679	-.3691	-.2995	-.2237	-.2024	-.1456
100.000						-.7908	-.7998	-.7854	-.6308	-.4420	-.3714	-.3031	-.2474	-.2292	-.1433
110.000						-.9048	-.8571	-.8221	-.6864	-.4974	-.4222	-.3444	-.3080	-.2914	.1919
120.000						-.8068								-.2642	
130.000						-.8059								-.3494	
140.000						-.7296								-.4668	
150.000						-.6173								-.4945	
160.000						-.6078								-.4576	
170.000						-.6377								-.4511	
180.000						-.6420	-.6000	-.5461	-.5128	-.4892	-.4483	-.4169	-.3909	-.3611	-.3872

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7190
PHI															
90.000	-.0917	-.0644	-.0158	.0157	.0452	.0612	.0697	.0000	.0733	.0503	.0302	-.0118	-.0595	-.0746	-.0851
100.000	-.1135	-.0785	-.0362	.0001	.0368	.0401	.0461	.0630	.0765	.0242	.0348	-.0042	-.0339	-.0448	-.0716
110.000	-.1648	-.1267	-.0693	-.0207	-.0016	.0212	.0293	.0466	.0506	.0379	.0220	-.0031	-.0169	-.0342	-.0486
120.000						.0302								.0062	
130.000						-.0059								.0148	
140.000						-.0174								.0287	
150.000						-.0306								.0277	
160.000						-.0497								.0173	
170.000						-.0740								-.0031	
180.000	-.3953	-.3980	-.3509	-.2524	-.1797	-.1263	-.0527	-.0065	-.0050	-.0131	-.0129	-.0222	-.0248	-.0246	.0116

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0935		
70.000							-.1457	-.2387	.0000
80.000							-.1778	-.2985	-.3209
90.000	.0000	.0000	.0000	-.0702	-.1088	.0000	-.2031	-.3006	-.3169
100.000	.0000	.0000	-.0371	-.0207	-.0998	-.1497			
110.000	.0000	-.0306	.0310	.0363	-.0305	-.1956			
120.000						-.2401			
130.000						-.1261			
140.000						.1769			
150.000						.2637			
160.000						.1474			
170.000						.0360			
180.000	-.0363	.0000	.1825	.2218	.2623	.3897			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (S) = 1.057 ALPHA (7) = 4.459

SECTION (11ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1100	-.1217	-.3354												
70.000	-.0662	-.0818	-.2570												
80.000	-.0335	-.1064	-.2267												
90.000			-.2587	-.5138	-.7138	-.7284	-.6857	.0000	-.5728	-.4804	-.3612	-.2783	-.2164	-.1906	-.1158
100.000						-.7340	-.7600	-.6740	-.5973	-.4724	-.3524	-.2938	-.2280	-.2193	-.1108
110.000						-.8520	-.8208	-.7773	-.6033	-.4745	-.4147	-.3387	-.2538	-.2339	-.1137
120.000						-.7936								-.2334	
130.000						-.8137								-.2871	
140.000						-.7610								-.3609	
150.000						-.6433								-.4397	
160.000						-.6355								-.4391	
170.000						-.6479								-.4071	
180.000						-.6548	-.6263	-.5770	-.5444	-.5161	-.4655	-.4127	-.3855	-.3832	-.3830

X/L	.4505	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0459	-.0112	.0027	.0236	.0469	.0605	.0988	.0000	.0967	.0679	.0351	-.0216	-.0803	-.1020	-.1034
100.000	-.0513	-.0231	-.0064	.0193	.0446	.0504	.0842	.0363	.1030	.0543	.0426	-.0121	-.0581	-.0716	-.0840
110.000	-.0682	-.0264	-.0073	.0136	.0328	.0504	.0798	.0330	.0913	.0765	.0397	-.0004	-.0275	-.0501	-.0541
000						.0441								-.0146	
130.000						.0174								-.0252	
140.000						.0014								-.0283	
150.000						.0018								-.0188	
160.000						-.0084								-.0214	
170.000						-.0183								-.0332	
180.000	-.3818	-.2874	-.2173	-.1401	-.0913	-.0459	-.0111	.0255	.0192	.0144	-.0144	-.0361	-.0473	-.0463	.0165

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1118		
70.000							-.1630	-.2645	.0000
80.000							-.1889	-.3303	-.3468
90.000	.0000	.0000	.0000	-.0605	-.0908	.0000	-.2087	-.3432	-.3394
100.000	.0000	.0000	-.0354	-.0031	-.0735	-.1497			
110.000	.0000	-.0364	.0337	.0594	-.0189	-.2107			
120.000						-.2555			
130.000						-.0759			
140.000						.1478			
150.000						.1596			
160.000						.0959			
170.000						.0877			
180.000	-.0358	.0000	.1793	.2066	.2184	.3089			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (S) = 1.056 ALPHA (B) = 6.838

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2810	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1533	-.1857	-.3557												
70.000	-.1265	-.1238	-.2774												
80.000	-.1075	-.1230	-.2452												
90.000			-.2615	-.5177	-.6701	-.6508	-.6057	.0000	16	-.5637	-.4325	-.3062	-.2248	-.1977	-.1230
100.000						-.6534	-.6497	-.6405	-.6	-.5821	-.3777	-.2928	-.2140	-.2106	-.1222
110.000						-.8187	-.7539	-.7166	-.66 6	-.5507	-.3999	-.2918	-.2387	-.2144	-.1249
120.000						-.8087								-.2146	
130.000						-.8438								-.2901	
140.000						-.8053								-.3220	
150.000						-.6923								-.3626	
160.000						-.6774								-.4042	
170.000						-.6766								-.4187	
180.000						-.6904	-.6731	-.6296	-.5953	-.5603	-.4944	-.4231	-.4067	-.4104	-.3896

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0600	-.0207	.0076	.0323	.0512	.0539	.0827	.0000	.0802	.0588	.0220	-.0374	-.1001	-.1291	-.1512
100.000	-.0446	-.0101	.0039	.0359	.0528	.0526	.0762	.0852	.0906	.0563	.0360	-.0222	-.0742	-.0940	-.1333
110.000	-.0606	-.0103	.0168	.0342	.0489	.0533	.0793	.0902	.0933	.0860	.0392	-.0051	-.0391	-.0725	-.1004
120.000						.0600								-.0347	
130.000						.0484								-.0344	
140.000						.0235								-.0676	
150.000						.0005								-.0746	
160.000						.0028								-.0642	
170.000						-.0156								-.0704	
180.000	-.3507	-.2583	-.1809	-.1073	-.0567	-.0139	-.0019	.0097	.0145	.0198	-.0146	-.0391	-.0636	-.0797	-.0436

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1450		
70.000							-.1922	-.2944	.0000
80.000							-.2153	-.3585	-.3810
90.000	.0000	.0000	.0000	-.0705	-.0791	.0000	-.2300	-.3705	-.3681
100.000	.0000	.0000	-.0751	-.0092	-.0608	-.1611			
110.000	.0000	-.0611	-.0375	.0603	-.0234	-.2322			
120.000						-.2778			
130.000						-.0447			
140.000						.1809			
150.000						.1438			
160.000						.0862			
170.000						.1705			
180.000	-.0823	.0000	.1133	.1508	.1612	.1259			

AMES 68-650 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.044 ALPHA (9) = 8.873

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.1997	-.2206	-.3936												
70.000	-.1775	-.1691	-.3166												
80.000	-.1566	-.1572	-.2809												
90.000			-.2868	-.5455	-.5685	-.6179	-.6422	.0000	-.5278	-.5012	-.4572	-.3455	-.2056	-.1567	-.1103
100.000						-.6198	-.6606	-.6655	-.6160	-.5343	-.3992	-.3016	-.1941	-.1745	-.0956
110.000						-.7262	-.7085	-.7113	-.6847	-.5664	-.3800	-.2512	-.1936	-.1737	-.0700
120.000						-.8492								-.1672	
130.000						-.9030								-.1920	
140.000						-.8726								-.2602	
150.000						-.7538								-.2827	
160.000						-.7452								-.3007	
170.000						-.7464								-.3608	
180.000						-.7677	-.7201	-.6699	-.6380	-.5966	-.5282	-.4556	-.4042	-.4105	-.2522

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0425	-.0122	.0014	.0211	.0365	.0390	.0413	.0000	.0210	-.0091	-.0324	-.0898	-.1467	-.1708	-.1968
100.000	-.0301	-.0085	.0073	.0261	.0422	.0422	.0368	.0387	.0402	-.0117	-.0150	-.0721	-.1179	-.1324	-.1804
110.000	-.0118	.0037	.0211	.0301	.0443	.0565	.0507	.0529	.0461	.0259	-.0003	-.0435	-.0757	-.1053	-.1492
120.000						.0758								-.0529	
130.000						.0590								-.0427	
140.000						.0461								-.0623	
150.000						.0143								-.0908	
160.000						-.0059								-.1105	
170.000						.0025								-.0900	
180.000	-.1788	-.1422	-.1057	-.0832	-.0719	-.0117	-.0078	-.0011	-.0089	-.0255	-.0510	-.0781	-.0968	-.0921	-.1144

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1903		
70.000							-.2341	-.3264	.0000
80.000							-.2533	-.3858	-.4046
90.000	.0000	.0000	.0000	-.0998	-.1348	.0000	-.2580	-.3947	-.3864
100.000	.0000	.0000	-.1103	-.0468	-.1073	-.1956			
110.000	.0000	-.1425	-.0670	.0092	-.0495	-.2651			
120.000						-.2780			
130.000						-.0540			
140.000						.1693			
150.000						.1560			
160.000						.1317			
170.000						.2481			
180.000	-.1393	.0000	.0599	.0894	.1140	.0733			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

M/CM (0) = 1.152 ALPHA (1) = -8.330

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1038	.0856	-.1979												
70.000	.1145	.0802	-.1224												
80.000	.1437	.0115	-.1275												
90.000			-.2496	-.4746	-.6434	-.6707	-.6661	.0000	-.5562	-.4079	-.3228	-.2744	-.2229	-.2048	-.1860
100.000						-.6713	-.7006	-.6365	-.5872	-.5295	-.4630	-.3080	-.2633	-.2595	-.2070
110.000						-.8419	-.7827	-.6864	-.6511	-.6231	-.5654	-.5460	-.5258	-.5299	-.4148
120.000						-.5789								-.5577	
130.000						-.4529								-.4648	
140.000						-.3289								-.3919	
150.000						-.3084								-.3252	
160.000						-.2928								-.2723	
170.000						-.3332								-.2205	
180.000						-.3157	-.2666	-.2300	-.2183	-.2171	-.1965	-.1776	-.1682	-.1693	-.1635

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1544	-.1502	-.1467	-.1438	-.1259	-.0647	-.0148	.0000	.0555	.0713	.0917	.0956	.0946	.1139	.1492
100.000	-.2009	-.2220	-.2416	-.2440	-.2357	-.1910	-.1321	-.0577	-.0008	.0119	.0526	.0663	.0747	.0989	.1128
110.000	-.3371	-.2804	-.2398	-.2275	-.1771	-.1165	-.0555	.0049	.0496	.0926	.1167	.1393	.1548	.1733	.1998
120.000						-.1808								.1948	
130.000						-.2436								.1801	
140.000						-.2517								.1614	
150.000						-.2593								.1614	
160.000						-.2709								.1620	
170.000						-.2303								.1543	
180.000	-.1832	-.1977	-.1873	-.1979	-.1936	-.1939	-.2051	-.1661	-.1874	-.1158	-.0628	-.0124	.1182	.1665	2393

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0425		
70.000							-.0579	-.1060	.0000
80.000							-.1385	-.2264	-.1760
90.000	.0000	.0000	.0000	.0674	.0258	.0000	-. 389	-.2098	-.1584
100.000	.0000	.0000	.1484	.1689	.1095	.0392			
110.000	.0000	.1642	.2311	.2014	.0879	-.0530			
120.000						-.3223			
130.000						-.1689			
140.000						2597			
150.000						.4822			
160.000						.3930			
170.000						.2495			
180.000	.2208	.0000	.4106	.4808	.5473	.6876			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1429/0A63 (REB026)

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE

MACH (8) = 1.099 ALPHA (2) = -6.182

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0802	.0411	-.2110												
70.000	.0905	.0448	-.1411												
80.000	.1218	.0028	-.1401												
90.000			-.2468	-.4806	-.6641	-.6953	-.6830	.0000	-.5923	-.4129	-.3370	-.2859	-.2471	-.2299	-.2089
100.000						-.6941	-.7046	-.6807	-.6182	-.5301	-.4018	-.3504	-.2892	-.2857	-.2314
110.000						-.6500	-.7953	-.6922	-.6258	-.6112	-.5474	-.4830	-.4834	-.4949	-.4270
120.000						-.6277								-.5669	
130.000						-.5434								-.4978	
140.000						-.4041								-.4291	
150.000						-.3671								-.3679	
160.000						-.3488								-.3162	
170.000						-.3949								-.2675	
180.000						-.3823	-.3306	-.2886	-.2724	-.2658	-.2413	-.2267	-.2140	-.2177	-.2152

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1790	-.1645	-.1479	-.1191	-.0645	-.0141	.0231	.0000	.0798	.0876	.1124	.1029	.0968	.1163	.1469
100.000	-.2166	-.2124	-.2103	-.1833	-.1616	-.1203	-.0776	-.0340	.0038	-.0009	.0475	.0487	.0512	.0793	.0809
110.000	-.3527	-.2946	-.2449	-.1937	-.1471	-.0812	-.0406	.0034	.0346	.0632	.0855	.0990	.1142	.1255	.1518
120.000						-.1119								.1726	
130.000						-.2034								.1697	
140.000						-.2512								.1531	
150.000						-.2611								.1473	
160.000						-.3002								.1424	
170.000						-.2786								.1292	
180.000	-.2234	-.2404	-.2330	-.2410	-.2388	-.2468	-.2566	-.2449	-.2113	-.1324	-.0499	.0109	.0830	.1305	.1975

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0298		
70.000							-.0598	-.1185	.0000
80.000							-.1246	-.2192	-.1793
90.000	.0000	.0000	.0000	.0619	.0125	.0000	-.1459	-.2172	-.2091
100.000	.0000	.0000	.1361	.1301	.0787	.0198			
110.000	.0000	.1242	.2051	.1832	.0886	-.0632			
120.000						-.3118			
130.000						-.1427			
140.000						.2551			
150.000						.4640			
160.000						.3665			
170.000						.2775			
180.000	.1724	.0000	.3727	.4421	.3156	.6501			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.100 ALPHA (3) = -4.102

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1840	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4510
PHI															
60.000	.0840	.0486	-.1921												
70.000	.1008	.0837	-.1239												
80.000	.1305	.0156	-.1180												
90.000			-.2097	-.4468	-.6403	-.6741	-.6814	.0000	-.5914	-.4175	-.3422	-.2932	-.2313	-.2063	-.1668
100.000						-.6745	-.6937	-.6847	-.6297	-.5112	-.3961	-.3461	-.2754	-.2857	-.1389
110.000						-.8126	-.7798	-.6941	-.6174	-.5877	-.4973	-.4144	-.4062	-.4058	.3542
120.000						-.6268								-.5100	
130.000						-.5677								-.4664	
140.000						-.4470								-.4243	
150.000						-.3813								-.3664	
160.000						-.3676								-.3167	
170.000						-.4106								-.2697	
180.000						-.4020	-.3709	-.3240	-.3071	-.2995	-.2792	-.2404	- 2229	-.2252	-.2244

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7100
PHI															
90.000	-.1355	-.1238	-.1014	-.0827	-.0235	.0184	.0687	.0000	.1193	.1206	.1198	.1024	.0858	.[illegible]95	.1469
100.000	-.1719	-.1623	-.1444	-.1116	-.0770	-.0454	-.0091	.0241	.0574	.0429	.0656	.0588	.0560	.0797	.0918
110.000	-.3088	-.2548	-.2078	-.1407	-.1179	-.0682	-.0179	.0145	.0405	.0523	.0519	.0527	.0668	.0719	.1129
120.000						-.0479								.1514	
130.000						-.1053								.1468	
140.000						-.1592								.1375	
150.000						-.1895								.1240	
160.000						-.2372								.1169	
170.000						-.2674								.0491	
180.000	-.2483	-.2630	-.2573	-.2662	-.2667	-.2521	-.2527	-.1864	-.1364	-.0522	-.0035	.0296	.0478	.0615	.1708

X/L	.7290	.7470	.7670	.7850	.8030	.8490	.8620	.9000	.9400
PHI									
60.000							.0155		
70.000							-.0591	-.1292	.0000
80.000							-.1080	-.2119	-.2052
90.000	.0000	.0000	.0000	.0854	.0269	.0000	-.1355	-.2192	-.2257
100.000	.0000	.0000	.1480	.1289	.0872	.0954			
110.000	.0000	.1359	.1485	.1934	.0900	-.0318			
120.000						-.2681			
130.000						-.1098			
140.000						.2621			
150.000						.4579			
160.000						.3516			
170.000						.2363			
180.000	.1429	.0000	.3630	.4275	.4825	.6097			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (6) = 1.102 ALPHA (4) = -1.961

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0505	.0164	-.2177												
70.000	.0657	.0371	-.1490												
80.000	.0946	-.0335	-.1375												
90.000			-.2164	-.4589	-.6619	-.6982	-.6959	.0000	-.5843	-.4205	-.3406	-.2811	-.2312	-.2039	-.1649
100.000						-.6968	-.7092	-.7018	-.6631	-.4841	-.3793	-.3301	-.2736	-.2591	-.1873
110.000						-.8211	-.7853	-.7211	-.6354	-.5673	-.4488	-.3911	-.3650	-.3593	-.3052
120.000						-.6632								-.4327	
130.000						-.6279								-.5143	
140.000						-.5278								-.4616	
150.000						-.4416								-.4060	
160.000						-.4285								-.3568	
170.000						-.4679								-.3130	
180.000						-.4648	-.4250	-.3795	-.3541	-.3406	-.3123	-.2891	-.2701	-.2685	-.2697

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1309	-.1094	-.0768	-.0319	.0207	.0514	.0878	.0000	.1261	.1165	.1177	.0888	.0612	.0667	.0909
100.000	-.1578	-.1314	-.0988	-.0617	-.0219	.0026	.0337	.0565	.0859	.0577	.0874	.0667	.0520	.0735	.0717
110.000	-.2688	-.2197	-.1771	-.1014	-.0843	-.0397	-.0140	.0130	.0315	.0329	.0329	.0247	.0307	.0341	.0561
120.000						-.0021								.1257	
130.000						-.0329								.1281	
140.000						-.0753								.1197	
150.000						-.1091								.1054	
160.000						-.1611								.0868	
170.000						-.2128								.0610	
180.000	-.2827	-.2986	-.2915	-.2941	-.2908	-.2737	-.2323	-.1056	-.0629	-.0011	.0290	.0397	.0403	.0432	.0647

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0064		
70.000							-.0670	-.1402	.0000
80.000							-.1060	-.2061	-.2097
90.000	.0000	.0000	.0000	.1153	.0019	.0000	-.1313	-.2150	-.2229
100.000	.0000	.0000	.1104	.0930	.0191	-.0129			
110.000	.0000	.1061	.1020	.1522	.0798	-.0475			
120.000						-.2638			
130.000						-.0861			
140.000						.2624			
150.000						.4332			
160.000						.3222			
170.000						.2096			
180.000	.0836	.0000	.2840	.3778	.4375	.5667			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (6) = 1.100 ALPHA (5) = .224

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0141	-.0116	-.2387												
70.000	.0344	.0131	-.1671												
80.000	.0620	-.0404	-.1484												
90.000			-.2102	-.4583	-.6687	-.7071	-.7018	.0000	-.5359	-.4071	-.3297	-.2704	-.2193	-.1913	-.1563
100.000						-.7063	-.7155	-.7073	-.6560	-.4235	-.3455	-.2880	-.2371	-.2191	-.1535
110.000						-.8160	-.7794	-.7346	-.6445	-.4879	-.3893	-.3431	-.3045	-.2973	-.2401
120.000						-.6915								-.3004	
130.000						-.6784								-.4568	
140.000						-.5999								-.4780	
150.000						-.4960								-.4278	
160.000						-.4839								-.3843	
170.000						-.5164								-.3433	
180.000						-.5162	-.4775	-.4283	-.3964	-.3792	-.3484	-.3198	-.3059	-.3[illegible]	-.3067

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6820	.7100
PHI															
90.000	-.1094	-.0874	-.0488	.0074	.0532	.0803	.1067	.0000	.1282	.1133	.1075	.0710	.0364	.0312	.0458
100.000	-.1356	-.1103	-.0817	-.0296	.0160	.0444	.0651	.0901	.1176	.0747	.0397	.0675	.0421	.0583	.0489
110.000	-.2009	-.1683	-.1291	-.0641	-.0429	-.0026	.0200	.0481	.0593	.0565	.0540	.0346	.0390	.0333	.0366
120.000						.0167								.1042	
130.000						-.0036								.1169	
140.000						-.0305								.1143	
150.000						-.0645								.1079	
160.000						-.1012								.0968	
170.000						-.1391								.0722	
180.000	-.3128	-.3257	-.3198	-.3100	-.2691	-.1851	-.1437	-.0323	-.0147	.0216	.0443	.0404	.0429	.0484	.0955

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0174		
70.000							-.0712	-.1482	.0000
80.000							-.1041	-.2099	-.2239
90.000	.0000	.0000	.0000	.0208	-.0320	.0000	-.1323	-.2209	-.2257
100.000	.0000	.0000	.0628	.0605	-.0182	-.0519			
110.000	.0000	.0718	.0693	.1184	.0455	-.0850			
120.000						-.1989			
130.000						-.0625			
140.000						.2824			
150.000						.4000			
160.000						.2885			
170.000						.1548			
180.000	.0597	.0000	.2697	.3161	.3783	.5163			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (6) = 1.091 ALPHA (6) = 2.430

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0319	-.0608	-.2870												
70.000	-.0123	-.0311	-.2100												
80.000	.0131	-.0559	-.1872												
90.000			-.2296	-.4853	-.6959	-.7319	-.7094	.0000	-.5237	-.4312	-.3339	-.2657	-.2107	-.1869	-.1518
100.000						-.7337	-.7319	-.7102	-.6106	-.4082	-.3264	-.2678	-.2268	-.2153	-.1530
110.000						-.8382	-.7872	-.7556	-.6472	-.4584	-.3777	-.3227	-.2762	-.2701	-.2025
120.000						-.7403								-.2528	
130.000						-.7432								-.3545	
140.000						-.6808								-.4668	
150.000						-.5714								-.4559	
160.000						-.5561								-.4229	
170.000						-.5780								-.3863	
180.000						-.5821	-.5315	-.4888	-.4555	-.4326	-.3901	-.3617	-.3467	-.3518	-.3555

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1089	-.0765	-.0219	.0213	.0618	.0967	.1017	.0000	.1143	.0939	.0841	.0514	.0015	-.0103	-.0159
100.000	-.1251	-.0930	-.0576	-.0041	.0443	.0693	.0793	.1007	.1147	.0714	.0962	.0572	.0211	.0221	-.0057
110.000	-.1486	-.1094	-.0802	-.0293	.0017	.0408	.0504	.0776	.0859	.0815	.0797	.0535	.0411	.0306	.0126
120.000						.0247								.0694	
130.000						.0048								.0818	
140.000						-.0098								.0937	
150.000						-.0285								.0945	
160.000						-.0581								.0873	
170.000						-.0827								.0716	
180.000	-.3471	-.3502	-.3340	-.2683	-.1917	-.1421	-.0841	-.0647	.0073	.0248	.0422	.0349	.0351	.0512	.0795

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0340		
70.000							-.0849	-.1699	.0000
80.000							-.1151	-.2280	-.2502
90.000	.0000	.0000	.0000	-.0258	-.0617	.0000	-.1388	-.2347	-.2448
100.000	.0000	.0000	.0104	.0217	-.0466	-.0834			
110.000	.0000	.0160	.0506	.0746	.0341	-.1270			
120.000						-.1729			
130.000						-.0560			
140.000						.2320			
150.000						.2759			
160.000						.1852			
170.000						.0823			
180.000	.0203	.0000	.2140	.2423	.2936	.4249			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.102 ALPHA (7) = 4.456

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0550	-.0621	-.2667												
70.000	-.0240	-.0215	-.1888												
80.000	-.0006	-.0414	-.1605												
90.000			-.1874	-.4387	-.6583	-.6638	-.6387	.0000	-.5056	-.4857	-.3517	-.2576	-.1892	-.1649	-.1213
100.000						-.6671	-.6305	-.6407	-.5476	-.4482	-.3498	-.2619	-.1975	-.1835	-.1148
110.000						-.7891	-.7432	-.7202	-.6194	-.4413	-.3812	-.2980	-.2301	-.2087	-.1501
120.000						-.7110								-.2102	
130.000						-.7331								-.2750	
140.000						-.6909								-.3679	
150.000						-.5797								-.4109	
160.000						-.5611								-.3830	
170.000						-.5726								-.3557	
180.000						-.5826	-.5536	-.5099	-.4769	-.4566	-.4107	-.3545	-.3345	-.3114	-.3335

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7190
PHI															
90.000	-.0744	-.0591	-.0179	.0196	.0618	.0895	.1165	.0000	.1374	.1196	.0936	.0502	.0035	-.0184	-.0319
100.000	-.0803	-.0638	-.0326	.0120	.0534	.0791	.1034	.1263	.1439	.1071	.0716	.0621	.0236	.0011	-.0148
110.000	-.1007	-.0697	-.0289	-.0020	.0341	.0663	.0891	.1150	.1304	.1234	.0985	.0771	.0512	.0297	.0141
120.000						.0444								.0433	
130.000						.0311								.0510	
140.000						-.0006								.0504	
150.000						-.0160								.0607	
160.000						-.0293								.0576	
170.000						-.0581								.0504	
180.000	-.3457	-.3447	-.2939	-.2273	-.1629	-.0992	-.0516	.0010	.0381	.0561	.0512	.0453	.0368	.0373	.0829

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9490
PHI									
60.000							-.0404		
70.000							-.0872	-.1878	.0000
80.000							-.1138	-.2505	-.2684
90.000	.0000	.0000	.0000	.0038	-.0231	.0000	-.1366	-.2600	-.2603
100.000	.0000	.0000	.0257	.0587	-.0077	-.0758			
110.000	.0000	.0249	.0686	.1245	.0473	-.1274			
120.000						-.1712			
130.000						.0121			
140.000						.2223			
150.000						.1997			
160.000						.1464			
170.000						.1634			
180.000	.0259	.0000	.2214	.2410	.2552	.3328			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (6) = 1.101 ALPHA (8) = 6.616

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.0915	-.1048	-.2887												
70.000	-.0875	-.0615	-.2115												
80.000	-.0494	-.0580	-.1820												
90.000			-.1937	-.4420	-.6343	-.5867	-.5340	.0000	-.5293	-.5250	-.4068	-.2740	-.2008	-.1798	-.1200
100.000						-.5776	-.6015	-.5607	-.5438	-.5225	-.3842	-.2564	-.2022	-.1943	-.1180
110.000						-.7627	-.7028	-.6454	-.5863	-.4031	-.3922	-.2804	-.2161	-.1959	-.1126
120.000						-.7317								-.2134	
130.000						-.7687								-.2671	
140.000						-.7371								-.2959	
150.000						-.6318								-.3420	
160.000						-.6127								-.3757	
170.000						-.6137								-.3716	
180.000						-.6291	-.5974	-.5519	-.5161	-.4907	-.4304	-.3830	-.3677	-.3593	-.3481

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0696	-.0314	.0044	.0309	.0541	.0779	.0996	.0000	.1141	.0887	.0692	.0267	-.0218	-.0477	-.0680
100.000	-.0752	-.0391	-.0048	.0288	.0601	.0771	.0902	.1066	.1209	.0871	.0837	.0423	.0042	-.0110	-.0491
110.000	-.0673	-.0277	.0061	.0258	.0500	.0738	.0902	.1072	.1221	.1103	.0907	.0618	.0378	.0103	-.0178
120.000						.0670								.0528	
130.000						.0263								.0485	
140.000						-.0041								.0210	
150.000						-.0139								.0165	
160.000						-.0189								.0237	
170.000						-.0402								.0194	
180.000	-.3341	-.2818	-.2251	-.1669	-.1218	-.0812	-.0326	-.0006	.0283	.0363	.0343	.0257	.0157	.0120	.0339

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0655		
70.000							-.1090	-.2053	.0000
80.000							-.1318	-.2671	-.2886
90.000	.0000	.0000	.0000	-.0121	-.0286	.0000	-.1443	-.2787	-.2762
100.000	.0000	.0000	-.0122	.0429	-.0126	-.0864			
110.000	.0000	-.0122	.0519	.1080	.0405	-.1460			
120.000						-.1917			
130.000						.0343			
140.000						.2627			
150.000						.2142			
160.000						.1487			
170.000						.2365			
180.000	-.0099	.0000	.1643	.1880	.2060	.1635			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (0) = 1.100 ALPHA (9) = 8.724

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	-.1234	-.1510	-.3074												
70.000	-.1046	-.0961	-.2247												
80.000	-.0877	-.0793	-.1883												
90.000			-.1881	-.4388	-.5262	-.4983	-.5227	.0000	-.5065	-.4504	-.3943	-.2974	-.2132	-.1930	-.1240
100.000						-.4885	-.5389	-.5533	-.5445	-.5057	-.3664	-.2604	-.2020	-.1955	-.1575
110.000						-.6856	-.6338	-.6018	-.5776	-.5131	-.3362	-.2402	-.1969	-.1818	-.0987
120.000						-.7412								-.1663	
130.000						-.7882								-.2006	
140.000						-.7644								-.2404	
150.000						-.6634								-.2675	
160.000						-.6371								-.2939	
170.000						-.6394								-.3331	
180.000						-.6619	-.6338	-.5854	-.5504	-.5141	-.4547	-.4139	-.3888	-.3604	-.2955

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0546	-.0280	-.0004	.0190	.0424	.0586	.0754	.0000	.0819	.0583	.0326	-.0176	-.0634	-.0869	-.1090
100.000	-.0520	-.0213	.0035	.0263	.0471	.0578	.0698	.0840	.0985	.0559	.0496	.0056	-.0334	-.0471	-.0975
110.000	-.0458	-.0162	.0111	.0255	.0475	.0607	.0780	.0975	.1049	.0818	.0662	.0334	.0160	-.0199	-.0534
120.000						.0683								.0300	
130.000						.0446								.0384	
140.000						.0122								.0134	
150.000						-.0190								-.0164	
160.000						-.0306								-.0330	
170.000						-.0377								-.0214	
180.000	-.2423	-.2000	-.1540	-.1260	-.0895	-.0603	-.0346	.0016	.0225	.0229	.0144	-.0096	-.0160	-.0295	-.0194

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1038		
70.000							-.1453	-.2393	.0000
80.000							-.1627	-.2941	-.3219
90.000	.0000	.0000	.0000	-.0127	-.0430	.0000	-.1682	-.3063	-.3037
100.000	.0000	.0000	-.0286	.0372	-.0178	-.1203			
110.000	.0000	-.0460	.0104	.0867	.0213	-.1808			
120.000						-.1916			
130.000						.0317			
140.000						.2544			
150.000						.2704			
160.000						.2088			
170.000						.3225			
180.000	-.0430	.0000	.1184	.1495	.1753	.1213			

AMES 68-63G PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.150 ALPHA (1) = -8.331

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1716	.1331	-.1254												
70.000	.1641	.1303	-.0508												
80.000	.2158	.0807	-.0582												
90.000			-.1795	-.3955	-.5610	-.5864	-.5740	.0000	-.4698	-.3151	-.2295	-.1878	-.1371	-.1176	-.0997
100.000						-.5866	-.6057	-.5409	-.4962	-.4283	-.2864	-.2249	-.1698	-.1714	-.1184
110.000						-.7537	-.6832	-.5946	-.5485	-.5371	-.4894	-.4548	-.4318	-.4456	-.3236
120.000						-.4918								-.4707	
130.000						-.3660								-.3818	
140.000						-.2451								-.3086	
150.000						-.2234								-.2442	
160.000						-.2082								-.1918	
170.000						-.2495								-.1405	
180.000						-.2309	-.1766	-.1375	-.1293	-.1313	-.1121	-.0943	-.0873	-.0877	-.0843

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6545	.6730	.6880	.7100
PHI															
90.000	-.0721	-.0656	-.0678	-.0682	-.0598	-.0156	.0356	.0000	.0934	.1100	.1360	.1352	.1356	.1570	.1926
100.000	-.1108	-.1336	-.1498	-.1599	-.1651	-.1476	-.0778	-.0135	.0434	.0594	.1066	.1160	.1228	.1494	.1630
110.000	-.2397	-.1948	-.1556	-.1484	-.1023	-.0668	-.0111	.0446	.0934	.1332	.1640	.1830	.2031	.2181	.2452
120.000						-.1276								.2375	
130.000						-.1680								.2231	
140.000						-.1690								.2023	
150.000						-.1647								.2017	
160.000						-.1890								.2017	
170.000						-.1530								.1938	
180.000	-.0925	-.1097	-.1049	-.1177	-.1155	-.1225	-.1275	-.0839	-.1055	-.0396	-.0006	.0172	.0804	.1858	.2805

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1014		
70.000							.0036	-.0483	.0000
80.000							-.0778	-.1649	-.1109
90.000	.0000	.0000	.0000	.1191	.0799	.0000	-.0754	-.1530	-.1007
100.000	.0000	.0000	.1961	.2203	.1621	.0966			
110.000	.0000	.2142	.2760	.2490	.1415	.0019			
120.000						-.2583			
130.000						-.1026			
140.000						.3146			
150.000						.5321			
160.000						.4408			
170.000						.3032			
180.000	.2843	.0000	.4558	.5225	.3956	.7318			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.146 ALPHA (2) = -8.161

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1592	.1156	-.1327												
70.000	.1713	.1179	-.0633												
80.000	.2008	.0785	-.0631												
90.000			-.1662	-.3949	-.5745	-.6026	-.5993	.0000	-.4748	-.3030	-.2382	-.1917	-.1560	-.1374	-.1221
100.000						-.6026	-.6090	-.5797	-.5177	-.4127	-.2925	-.2298	-.1935	-.1653	-.1444
110.000						-.7533	-.6962	-.5911	-.5262	-.5083	-.4433	-.3954	-.3874	-.3950	[illegible]
120.000						-.5342								-.4692	
130.000						-.4455								-.4093	
140.000						-.3107								-.3405	
150.000						-.2806								-.2785	
160.000						-.2629								-.227	
170.000						-.3046								-.1789	
180.000						-.2936	-.2358	-.1945	-.1780	-.1748	-.1512	-.1402	-.1244	-.1294	-.1340

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6[illegible]	.7[illegible]
PHI															
90.000	-.0975	-.0785	-.0625	-.0430	-.0058	.0370	.0731	.0000	.1238	.1398	.1539	.1471	.1405	.1629	.1964
100.000	-.1282	-.1236	-.1270	-.1154	-.0905	-.0611	-.0220	.0098	.0523	.0459	.0914	.0958	.1016	.1297	.1342
110.000	-.2599	-.1962	-.1523	-.1154	-.0819	-.0234	.0144	.0541	.0867	.1136	.1373	.1511	.1691	.1823	.2059
120.000						-.0673								.2216	
130.000						-.1523								.2174	
140.000						-.1754								.1966	
150.000						-.1642								.1674	
160.000						-.2021								.1778	
170.000						-.1930								.1571	
180.000	-.1358	-.1491	-.1419	-.1539	-.1527	-.1652	-.1774	-.1233	-.1284	-.0567	-.0007	.0305	.0774	.1377	.2411

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							.0944		
70.000							.0077	-.0543	.0000
80.000							-.0593	-.1544	-.1157
90.000	.0000	.0000	.0000	.1183	.0692	.0000	-.0778	-.1530	-.1436
100.000	.0000	.0000	.1908	.1695	.1369	.0793			
110.000	.0000	.1811	.2295	.2356	.1429	-.0100			
120.000						-.2431			
130.000						-.0743			
140.000						.3148			
150.000						.5211			
160.000						.4207			
170.000						.2984			
180.000	.2232	.0000	.4241	.4885	.5611	.7001			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (7) = 1.151 ALPHA (3) = -4.036

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1452	.1049	-.1349												
70.000	.1589	.1138	-.0678												
80.000	.1681	.0745	-.0654												
90.000			-.1581	-.3888	-.5749	-.6073	-.5930	.0000	-.4548	-.2904	-.2215	-.1736	-.1408	-.1273	-.0779
100.000						-.6061	-.6059	-.5934	-.5313	-.3766	-.2744	-.2289	-.1813	-.1851	-.0994
110.000						-.7439	-.6916	-.5996	-.5253	-.4832	-.3932	-.3333	-.3251	-.3378	-.2498
120.000						-.5522								-.4107	
130.000						-.4843								-.4139	
140.000						-.3510								-.3570	
150.000						-.3099								-.3002	
160.000						-.2943								-.2498	
170.000						-.3377								-.2016	
180.000						-.3287	-.2796	-.2335	-.2137	-.2024	-.1806	-.1637	-.1530	-.1532	-.1554

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0482	-.0254	-.0133	.0218	.0641	.0825	.1067	.0000	.1497	.1491	.1605	.1421	.1203	.1373	.1781
100.000	-.0837	-.0535	-.0430	-.0089	.0096	.0222	.0355	.0585	.0929	.0719	.1125	.0975	.0937	.1217	.1279
110.000	-.1941	-.1496	-.1014	-.0374	-.0183	.0144	.0305	.0625	.0857	.1003	.1129	.1083	.1209	.1329	.1601
120.000						.0222								.1935	
130.000						-.0328								.1863	
140.000						-.0754								.1667	
150.000						-.0932								.1487	
160.000						-.1312								.1265	
170.000						-.1838								.0999	
180.000	-.1372	-.1747	-.1648	-.1675	-.1691	-.1878	-.1773	-.0746	-.0289	.0022	.0562	.0698	.0612	.0870	.1659

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0715		
70.000							-.0012	-.0693	.0000
80.000							-.0528	-.1530	-.1349
90.000	.0000	.0000	.0000	.2246	.0653	.0000	-.0755	-.1570	-.1532
100.000	.0000	.0000	.1802	.1649	.1136	.0600			
110.000	.0000	.1691	.1653	.2235	.1343	-.0135			
120.000						-.2288			
130.000						-.0539			
140.000						.3052			
150.000						.5012			
160.000						.3990			
170.000						.2913			
180.000	.1903	.0000	.2901	.4607	.5272	.6313			

AMES 66-656 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (7) = 1.193 ALPHA (4) = -1.927

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1298	.0929	-.1417												
70.000	.1477	.1080	-.0738												
80.000	.1740	.0402	-.0658												
90.000			-.1421	-.3779	-.5718	-.6029	-.5942	.0000	-.4255	-.2655	-.1983	-.1381	-.0883	-.0646	-.0427
100.000						-.6033	-.6064	-.5968	-.5408	-.3261	-.2387	-.1809	-.1289	-.1122	-.0564
110.000						-.7289	-.6826	-.6070	-.5282	-.4253	-.3055	-.2592	-.2367	-.2313	-.1703
120.000						-.5654								-.2193	
130.000						-.5199								-.3984	
140.000						-.4019								-.3592	
150.000						-.3382								-.3042	
160.000						-.3268								-.2572	
170.000						-.3705								-.2128	
180.000						-.3659	-.3195	-.2729	-.2515	-.2375	-.2089	-.1807	-.1664	-.1658	-.1701

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0188	-.0074	.0183	.0573	.0903	.1135	.1549	.0000	.1751	.1587	.1547	.1201	.0894	.0906	.1289
100.000	-.0385	-.0249	-.0064	.0223	.0493	.0671	.0901	.1177	.1355	.0953	.1209	.0958	.0772	.0966	.1054
110.000	-.1391	-.0961	-.0651	-.0098	.0169	.0391	.0639	.0885	.0991	.0925	.0892	.0780	.0806	.0822	.1144
120.000						.0703								.1575	
130.000						.0481								.1567	
140.000						.0177								.1381	
150.000						.0000								.1144	
160.000						-.0293								.0944	
170.000						-.0439								.0696	
180.000	-.1782	-.1860	-.1898	-.1902	-.1685	-.0827	-.0412	.0345	.0325	.0497	.0628	.0634	.0634	.0630	.1146

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0558		
70.000							-.0071	-.0847	.0000
80.000							-.0488	-.1506	-.1525
90.000	.0000	.0000	.0000	.1098	.0556	.0000	-.0755	-.1619	-.1594
100.000	.0000	.0000	.1617	.1539	.0842	.0407			
110.000	.0000	.1481	.1630	.2048	.1258	-.0148			
120.000						-.2080			
130.000						-.0350			
140.000						.2998			
150.000						.4831			
160.000						.3694			
170.000						.2752			
180.000	.1432	.0000	.3675	.4287	.4823	.6019			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.149 ALPHA (5) = .197

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0985	.0736	-.1475												
70.000	.1202	.0949	-.0824												
80.000	.1323	.0343	-.0713												
90.000			-.1345	-.3784	-.5762	-.6125	-.5953	.0000	-.3690	-.2456	-.1772	-.1143	-.0745	-.0531	-.0450
100.000						-.6111	-.6081	-.5943	-.4400	-.2608	-.2023	-.1415	-.0998	-.0896	-.0422
110.000						-.7233	-.6699	-.6149	-.4985	-.3219	-.2566	-.2112	-.1771	-.1761	-.1189
120.000						-.5916								-.1534	
130.000						-.5678								-.2742	
140.000						-.4644								-.3730	
150.000						-.3822								-.3332	
160.000						-.3710								-.2889	
170.000						-.4103								-.2475	
180.000						-.4117	-.3604	-.3117	-.2828	-.2656	-.2285	-.2018	-.1845	-.2040	-.1986

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0027	.0148	.0350	.0671	.1200	.1573	.1449	.0000	.1605	.1441	.1447	.1091	.0716	.0540	.0566
100.000	-.0173	.0033	.0074	.0605	.0962	.1198	.0973	.1159	.1407	.1025	.1335	.1013	.0718	.0760	.0671
110.000	-.0840	-.0456	-.0390	.0228	.0547	.0803	.0629	.0775	.0935	.0975	.0977	.0791	.0708	.0614	.0721
120.000						.1040								.1281	
130.000						.0609								.1347	
140.000						.0222								.1227	
150.000						.0027								.1095	
160.000						-.0250								.0895	
170.000						-.0418								.0660	
180.000	-.1973	-.2128	-.1941	-.1436	-.0639	-.0638	-.0652	-.0060	.0096	.0443	.0662	.0554	.0530	.0550	.0343

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0546		
70.000							-.0027	-.0854	.0000
80.000							-.0404	-.1506	-.1548
90.000	.0000	.0000	.0000	.0738	.0247	.0000	-.0687	-.1627	-.1548
100.000	.0000	.0000	.1160	.1149	.0450	.0046			
110.000	.0000	.1158	.1359	.1670	.0913	-.0448			
120.000						-.1691			
130.000						-.0138			
140.000						.3104			
150.000						.4605			
160.000						.3436			
170.000						.2510			
180.000	.1019	.0000	.3230	.3795	.4374	.5637			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (M) = 1.190 ALPHA (6) = 2.334

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.0748	.0515	-.1691												
70.000	.1012	.0780	-.0968												
80.000	.1255	.0395	-.0802												
90.000			-.1290	-.3762	-.5569	-.5836	-.5880	.0000	-.3751	-.2882	-.1617	-.1115	-.0815	-.0402	.0107
100.000						-.5838	-.6222	-.5495	-.3888	-.2690	-.1723	-.1145	-.0743	-.0591	.0275
110.000						-.6912	-.6855	-.6190	-.4428	-.3003	-.2318	-.1682	-.1278	-.1075	-.0189
120.000						-.6464								-.0840	
130.000						-.6030								-.1419	
140.000						-.5465								-.2485	
150.000						-.4270								-.2968	
160.000						-.4164								-.2665	
170.000						-.4413								-.2315	
180.000						-.4497	-.4028	-.3539	-.3233	-.2933	-.2548	-.2166	-.2020	-.1917	-.1953

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0775	.0858	.0882	.1018	.1162	.1314	.1459	.0000	.1713	.1677	.1494	.1022	.0499	.0289	.0147
100.000	.0875	.0579	.0879	.0874	.1084	.1118	.1233	.1509	.1764	.1443	.1480	.1012	.0808	.0559	.0302
110.000	.0127	.0313	.0517	.0715	.0729	.0742	.1023	.1362	.1479	.1326	.1312	.0966	.0756	.0553	.0491
120.000						.0858								.0532	
130.000						.0520								.1070	
140.000						.0290								.1004	
150.000						.0197								.0492	
160.000						-.0079								726	
170.000						-.0330								.0615	
180.000	-.2016	-.1917	-.1445	-.0776	-.0449	-.0503	-.0162	.0621	.0833	.0962	.0726	.0553	.0425	.0243	.0740

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0290		
70.000							-.0182	-.1037	.0000
80.000							-.0532	-.1669	-.1792
90.000	.0000	.0000	.0000	.0445	.0093	.0000	-.0804	-.1808	-.1815
100.000	.0000	.0000	.0775	.0945	.0273	-.0382			
110.000	.0000	.0750	.0891	.1500	.0662	-.0731			
120.000						-.1431			
130.000						-.0097			
140.000						.3093			
150.000						.4200			
160.000						.3041			
170.000						.2967			
180.000	.0721	.0000	.2922	.3558	.3926	.5113			

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AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (P) = 1.130 ALPHA (P) = 4.475

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.0441	.0237	-.1849												
90.000	.0686	.0546	-.1070												
80.000	.0981	.0329	-.0846												
90.000			-.1215	-.3673	-.5295	-.4727	-.4409	.0000	-.4097	-.4339	-.2819	-.1007	-.0709	-.0480	.0175
100.000						-.4735	-.5290	-.4429	-.4129	-.3860	-.2703	-.1029	-.0702	-.0656	.0121
110.000						-.6681	-.6139	-.5478	-.4335	-.3440	-.2701	-.1544	-.0841	-.0793	.0199
120.000						-.6200								-.0713	
130.000						-.6354								-.1229	
140.000						-.5866								-.1692	
150.000						-.4733								-.2076	
160.000						-.4598								-.2520	
170.000						-.4749								-.2377	
180.000						-.4643	-.4527	-.4121	-.3726	-.3292	-.2639	-.2245	-.2144	-.2072	-.2000

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7130
PHI															
90.000	.0438	.1092	.1296	.1421	.1481	.1531	.1415	.0000	.1601	.1437	.1367	.0903	.0435	.0169	-.0233
100.000	.0822	.1036	.1246	.1419	.1411	.1371	.1213	.1457	.1681	.1341	.1411	.0981	.0613	.0447	-.0024
110.000	.0834	.1016	.1250	.1310	.1371	.1377	.1139	.1395	.1527	.1529	.1347	.1075	.0857	.0569	.0247
120.000						.1078								.0429	
130.000						.0641								.0441	
140.000						.0505								.0339	
150.000						.0377								.0821	
160.000						.0253								.0713	
170.000						.0117								.0513	
180.000	-.1793	-.1228	-.0646	-.0232	.0073	-.0292	.0096	.0853	.0741	.0789	.0719	.0581	.0457	.0327	.0577

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0111		
70.000							-.0351	-.1249	.0000
80.000							-.0629	-.1852	-.2098
90.000	.0000	.0000	.0000	.0132	-.0158	.0000	-.0883	-.1977	-.1902
100.000	.0000	.0000	.0358	.0861	.0103	-.0372			
110.000	.0000	.0348	.0945	.1218	.0880	-.1006			
120.000						-.1304			
130.000						.0063			
140.000						.3025			
150.000						.3621			
160.000						.2464			
170.000						.1923			
180.000	.0383	.0000	.2383	.2999	.3393	.4537			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (M) = 1.147 ALPHA (A) = 8.625

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0690	.1200	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0003	-.0129	-.1987												
70.000	.0254	.0548	-.1268												
80.000	.0499	.0158	-.0960												
90.000			-.1204	-.3575	-.4442	-.4564	-.4702	.0000	-.3868	-.3254	-.2207	-.1464	-.0824	-.0501	-.0062
100.000						-.4582	-.4853	-.4923	-.4574	-.3501	-.1832	-.1424	-.0802	-.0539	.0064
110.000						-.6042	-.5354	-.5382	-.5029	-.3328	-.2116	-.1347	-.0740	-.0531	.0054
120.000						-.6070								-.0507	
130.000						-.6522								-.0894	
140.000						-.6187								-.1389	
150.000						-.5136								-.1776	
160.000						-.5067								-.1975	
170.000						-.5168								-.2	
180.000						-.5324	-.4953	-.4464	-.4084	-.3645	-.2951	-.2498	-.2239	-.2	.2045
X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6	.7100
PHI															
90.000	.0324	.0550	.0874	.0799	.0975	.1082	.1366	.0000	.1322	.1065	.0902	.0453	-.0059	-.0	-.0258
100.000	.0314	.0510	.0618	.0680	.0935	.0971	.1288	.1310	.1416	.1035	.1022	.0603	.0180	.0	-.0443
110.000	.0419	.0876	.0612	.0771	.0867	.0943	.1248	.1332	.1360	.1224	.1056	.0750	.0431	.0241	-.0156
120.000						.0887								.0551	
130.000						.0751								.0455	
140.000						.0482								.0373	
150.000						.0486								.0401	
160.000						.0366								.0417	
170.000						.0272								.0289	
180.000	-.1594	-.1191	-.0939	-.0538	-.0584	.0105	.0226	.0879	.0550	.0478	.0435	.0283	.0188	.0188	.0254
X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400						
PHI															
70.000							-.0085								
80.000							-.0495	-.1448	.0000						
90.000							-.0735	-.2044	-.2245						
100.000	.0000	.0000	.0000	.0150	-.0015	.0000	-.0539	-.2164	-.2145						
110.000	.0000	.0000	.0017	.0377	.0248	-.0473									
120.000	.0000	-.0088	.0466	.1356	.0671	-.1263									
130.000						-.1453									
140.000						.0667									
150.000						.2879									
160.000						.2531									
170.000						.1889									
180.000						.2395									
	-.0.38	.0000	.2091	.2.55	.2538	.2733									

AMES 66-63D PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (7) = 1.193 ALPHA (9) = 8.639

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0462	-.0674	-.2070												
70.000	-.0530	.0144	-.1278												
80.000	-.0124	.0296	-.0930												
90.000			-.0980	-.3446	-.3876	-.4174	-.4473	.0000	-.3740	-.3036	-.2329	-.1217	-.0359	.0003	.0540
100.000						-.4308	-.4609	-.4683	-.4155	-.3288	-.1773	-.0992	-.0303	-.0089	.0668
110.000						-.5338	-.5221	-.5199	-.4869	-.3262	-.1689	-.0896	-.0307	.0003	.0796
120.000						-.6230								.0090	
130.000						-.6724								-.0146	
140.000						-.6486								-.0618	
150.000						-.5492								-.0898	
160.000						-.5114								-.1097	
170.000						-.5248								-.1407	
180.000						-.5398	-.5131	-.4603	-.4217	-.3838	-.3138	-.2591	-.2119	-.1700	-.0934

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0928	.0882	.0986	.1068	.1214	.1250	.1518	.0000	.1406	1093	.0737	.0265	-.0267	-.0526	-.0776
100.000	.0956	.0932	.1026	.1120	.1280	.1242	.1456	.1514	.1578	.1077	.0926	.0419	-.0021	-.0 35	-.0594
110.000	.0892	.1102	.1152	.1170	.1266	.1312	.1566	.1622	.1582	.1406	.1026	.0657	.0341	.0064	-.0285
120.000						.1490								.0451	
130.000						.1380								.0445	
140.000						.1208								.0134	
150.000						.1083								.0033	
160.000						.1129								.0086	
170.000						.1015								-.0015	
180.000	-.0529	-.0179	-.0022	.0242	.0472	.0887	.1021	.1514	.0967	.0819	.0533	.0303	.0078	-.0134	-.0020

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0591		
70.000							-.1000	-.1873	.0000
80.000							-.1192	-.2417	-.2649
90.000	.0000	.0000	.0000	-.0056	-.0122	.0000	-.1261	-.2534	-.2540
100.000	.0000	.0000	-.0183	.0542	.0105	-.0747			
110.000	.0000	-.0421	.0275	.1155	.0463	-.1383			
120.000						-.1506			
130.000						.0661			
140.000						.2748			
150.000						.2434			
160.000						.1935			
170.000						.2861			
180.000	-.0335	.0000	.1710	.2077	.2181	.1672			

AMES 66-83D PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.250 ALPHA (1) = -8.366

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1804	.1752	-.0599												
70.000	.1871	.1756	.0032												
80.000	.2146	.1319	.0022												
90.000			-.0989	-.3018	-.4685	-.5005	-.4999	.0000	-.4884	-.4411	-.3181	-.2568	-.1979	-.1781	-.1651
100.000						-.5005	-.5213	-.5168	-.4629	-.4261	-.3983	-.3354	-.2817	-.2829	-.2284
110.000						-.6405	-.6148	-.5632	-.4948	-.4756	-.4604	-.4577	-.4329	-.4332	-.4045
120.000						-.4397								-.4322	
130.000						-.3784								-.3536	
140.000						-.2979								-.2920	
150.000						-.2206								-.2341	
160.000						-.1945								-.1893	
170.000						-.2309								-.1483	
180.000						-.2237	-.1919	-.1633	-.1518	-.1441	-.1271	-.1169	-.1099	-.1121	-.1109

X/L	.4500	.4680	.4860	.5050	. 240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1270	-.1193	-.1088	-.1059	-.1084	-.1262	-.1257	.0000	-.1269	-.1130	-.1130	-.1427	-.1611	-.1552	-.1323
100.000	-.2130	-.2080	-.2031	-.1930	-.2106	-.2466	-.2515	-.2537	-.2181	-.2116	-.1609	-.1556	-.1635	-.1399	-.0985
110.000	-.3682	-.3063	-.2521	-.2083	-.1951	-.1833	-.1760	-.1621	-.1442	-.1198	-.1010	-.0896	-.0896	-.0782	-.0186
120.000						-.2164								-.0959	
130.000						-.2885								-.1568	
140.000						-.3006								-.1784	
150.000						-.2464								-.1621	
160.000						-.2175								-.1411	
170.000						-.1821								-.1419	
180.000	-.1216	-.1375	-.1278	-.1471	-.1485	-.1548	-.1639	-.1633	-.1788	-.1756	-.1649	-.1627	-.1391	-.1250	-.0824

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1400		
70.000							.0394	.0016	.0000
80.000							-.0382	-.0953	-.0567
90.000	.0000	.0000	.0000	.0580	.0447	.0000	-.0199	-.0740	-.0598
100.000	.0000	.0000	.0484	.1014	.0784	.0682			
110.000	.0000	.0719	.1094	.0584	.0791	-.0182			
120.000						-.3128			
130.000						-.0912			
140.000						.3741			
150.000						.5580			
160.000						.4524			
170.000						.1808			
180.000	.0378	.0000	.2725	.3642	.4398	.6127			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.251 ALPHA (2) = -6.218

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1608	.1522	-.0699												
70.000	.1636	.1616	-.0107												
80.000	.1899	.1090	-.0041												
90.000			-.0910	-.2991	-.4773	-.5129	-.5084	.0000	-.5107	-.4642	-.3311	-.2624	-.2170	-.2019	-.1887
100.000						-.5135	-.5158	-.5205	-.4948	-.4493	-.4123	-.3430	-.2842	-.2830	-.2246
110.000						-.6385	-.6114	-.5680	-.4880	-.4559	-.4409	-.4272	-.4005	-.3970	-.4026
120.000						-.4681								-.4359	
130.000						-.4249								-.3742	
140.000						-.3622								-.3192	
150.000						-.2734								-.2644	
160.000						-.2477								-.2224	
170.000						-.2769								-.1841	
180.000						-.2709	-.2397	-.2060	-.1951	-.1899	-.1677	-.1589	-.1479	-.1491	-.1471

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1562	-.1425	-.1259	-.1164	-.1203	-.1216	-.1273	.0000	-.1190	-.0984	-.0881	-.1197	-.1403	-.1305	-.1100
100.000	-.2040	-.1913	-.1839	-.1717	-.1772	-.2060	-.2178	-.2286	-.2043	-.2139	-.1686	-.1706	-.1710	-.1425	-.1152
110.000	-.3815	-.3306	-.2741	-.2083	-.2095	-.1932	-.1880	-.1758	-.1573	-.1345	-.1107	-.1015	-.0948	-.0844	-.0239
120.000						-.2157								-.0967	
130.000						-.2897								-.1568	
140.000						-.3204								-.1869	
150.000						-.2750								-.1767	
160.000						-.2481								-.1621	
170.000						-.2167								-.1696	
180.000	-.1495	-.1648	-.1584	-.1818	-.1772	-.1909	-.2021	-.1886	-.2223	-.2174	-.1981	-.1985	-.1798	-.1672	-.1201

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1295		
70.000							.0346	-.0126	.0000
80.000							-.0399	-.1093	-.0992
90.000	.0000	.0000	.0000	.1168	.0118	.0000	-.0367	-.0963	-.0886
100.000	.0000	.0000	.0330	.0816	.0655	.0559			
110.000	.0000	.0462	.0792	.0588	.0829	-.0240			
120.000						-.2803			
130.000						-.0451			
140.000						.3820			
150.000						.5222			
160.000						.4226			
170.000						.1947			
180.000	.0306	.0000	.1715	.3157	.3907	.5854			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.251 ALPHA (3) = -4.059

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1253	.1261	-.0983												
70.000	.1343	.1468	-.0297												
80.000	.1550	.0850	-.0210												
90.000			-.0846	-.2995	-.4801	-.5183	-.5185	.0000	-.5274	-.4794	-.3363	-.2666	-.2304	-.2161	-.1952
100.000						-.5173	-.5234	-.5239	-.5169	-.4714	-.4181	-.3320	-.2826	-.2722	-.2200
110.000						-.6312	-.6082	-.5736	-.4975	-.4597	-.4397	-.4080	-.3645	-.3565	-.3538
120.000						-.4912								-.4219	
130.000						-.4622								-.3923	
140.000						-.4136								-.3449	
150.000						-.3283								-.2931	
160.000						-.2927								-.2511	
170.000						-.3100								-.2178	
180.000						-.3112	-.2867	-.2555	-.2400	-.2331	-.2129	-.1993	-.1846	-.1859	-.1791

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1681	-.1545	-.1425	-.1353	-.1293	-.1289	-.1195	.0000	-.0702	-.0433	-.0396	-.0677	-.0803	-.0780	-.0817
100.000	-.2025	-.1903	-.1792	-.1665	-.1639	-.1779	-.1737	-.1715	-.1393	-.1405	-.1147	-.1218	-.1271	-.1098	-.1129
110.000	-.3515	-.3279	-.2944	-.2179	-.2321	-.2133	-.1945	-.1705	-.1411	-.1118	-.0963	-.0966	-.0915	-.0860	-.0490
120.000						-.2069								-.0599	
130.000						-.2653								-.0982	
140.000						-.3207								-.1434	
150.000						-.2940								-.1572	
160.000						-.2757								-.1621	
170.000						-.2490								-.1798	
180.000	-.1866	-.2009	-.1965	-.2154	-.2162	-.2239	-.2316	-.2113	-.2465	-.2439	-.2305	-.2290	-.2097	-.1904	-.1403

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1169		
70.000							.0390	-.0386	.0000
80.000							-.0216	-.1198	-.1138
90.000	.0000	.0000	.0000	.0345	-.0098	.0000	-.0576	-.1245	-.1019
100.000	.0000	.0000	.0200	.0540	.0286	.0165			
110.000	.0000	.0123	.0419	.0662	.0558	-.0427			
120.000						-.2563			
130.000						-.0194			
140.000						.3783			
150.000						.4696			
160.000						.3635			
170.000						.2048			
180.000	-.0095	.0000	.2161	.2821	.3379	.5432			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.253 ALPHA (4) = -1.994

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0900	.1013	-.1177												
70.000	.1025	.1319	-.0415												
80.000	.1206	.1114	-.0273												
90.000			-.0767	-.2953	-.4920	-.5260	-.5285	.0000	-.5392	-.4920	-.3545	-.2809	-.2444	-.2295	-.2065
100.000						-.5247	-.5349	-.5326	-.5324	-.4976	-.4262	-.3257	-.2768	-.2718	-.2273
110.000						-.6295	-.6121	-.5791	-.5176	-.4719	-.4513	-.4070	-.3407	-.3351	-.3175
120.000						-.5054								-.4223	
130.000						-.4897								-.4060	
140.000						-.4553								-.3672	
150.000						-.3750								-.3184	
160.000						-.3308								-.2776	
170.000						-.3374								-.2417	
180.000						-.3470	-.3216	-.2899	-.2730	-.2656	-.2438	-.2277	-.2103	-.2088	-.2039

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1730	-.1492	-.1254	-.1148	-.1075	-.1040	-.0979	.0000	-.0278	-.0117	-.0144	-.0380	-.0574	-.0613	-.0688
100.000	-.2007	-.1779	-.1541	-.1388	-.1253	-.1287	-.1244	-.1034	-.0666	-.0725	-.0560	-.0735	-.0800	-.0692	-.0759
110.000	-.3043	-.2867	-.2651	-.1929	-.2163	-.2034	-.1901	-.1636	-.1318	-.1126	-.1029	-.1061	-.1019	-.0962	-.0705
120.000						-.1717								-.0295	
130.000						-.2274								-.0364	
140.000						-.2971								-.0678	
150.000						-.3117								-.0935	
160.000						-.2975								-.1176	
170.000						-.2765								-.1496	
180.000	-.2136	-.2262	-.2270	-.2434	-.2456	-.2583	-.2685	-.2206	-.2816	-.2732	-.2562	-.2474	-.2079	-.1730	-.1213

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0906		
70.000							.0404	-.0560	.0000
80.000							-.0010	-.1323	-.1301
90.000	.0000	.0000	.0000	.0192	-.0211	.0000	-.0543	-.1536	-.1196
100.000	.0000	.0000	.0330	.0387	.0044	-.0177			
110.000	.0000	.0176	.0342	.0820	.0580	-.0427			
120.000						-.2274			
130.000						.0059			
140.000						.3750			
150.000						.4391			
160.000						.3103			
170.000						.2173			
180.000	-.0338	.0000	.2158	.2682	.3083	.5255			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.249 ALPHA (5) = .114

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0595	.0632	-.1346												
70.000	.0767	.1051	-.0581												
80.000	.0952	.0915	-.0381												
90.000			-.0704	-.2942	-.4987	-.5398	-.5466	.0000	-.5612	-.5213	-.3886	-.2998	-.2528	-.2365	-.2015
100.000						-.5398	-.5540	-.5543	-.5563	-.5388	-.4473	-.3337	-.2795	-.2737	-.2137
110.000						-.6287	-.6104	-.5913	-.5532	-.4987	-.4736	-.3846	-.3211	-.3024	-.2698
120.000						-.5248								-.4241	
130.000						-.5261								-.4174	
140.000						-.5012								-.3875	
150.000						-.4320								-.3438	
160.000						-.3829								-.3031	
170.000						-.3808								-.2683	
180.000						-.3975	-.3716	-.3424	-.3208	-.3092	-.2862	-.2642	-.2431	-.2346	-.2327

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1684	-.1405	-.1196	-.1062	-.0946	-.0993	-.0722	.0000	-.0164	-.0018	-.0017	-.0276	-.0574	-.0525	-.0661
100.000	-.1856	-.1585	-.1320	-.1159	-.1041	-.1082	-.0969	-.0755	-.0450	-.0545	-.0274	-.0494	-.0649	-.0439	-.0590
110.000	-.2519	-.2336	-.2082	-.1556	-.1668	-.1612	-.1399	-.1279	-.1057	-.0969	-.0879	-.0961	-.0922	-.0922	-.0704
120.000						-.1306								-.0235	
130.000						-.1631								-.0146	
140.000						-.2167								-.0270	
150.000						-.2778								-.0470	
160.000						-.3133								-.0755	
170.000						-.3012								-.1003	
180.000	-.2405	-.2566	-.2577	-.2713	-.2775	-.2845	-.2945	-.2330	-.3043	-.2866	-.2574	-.2069	-.1562	-.1340	-.0818

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0395		
70.000							-.0019	-.0747	.0000
80.000							-.0286	-.1404	-.1546
90.000	.0000	.0000	.0000	.1772	-.0439	.0000	-.0601	-.1665	-.1542
100.000	.0000	.0000	.0140	.0225	-.0197	-.0530			
110.000	.0000	.0174	.0296	.0789	.0413	-.0571			
120.000						-.1676			
130.000						.0181			
140.000						.3686			
150.000						.4003			
160.000						.2679			
170.000						.1854			
180.000	-.0570	.0000	.1099	.2361	.2575	.4752			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.251 ALPHA (8) = 2.294

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0346	.0211	-.1458												
70.000	.0500	.0663	-.0835												
80.000	.0634	.0846	-.0372												
90.000			-.0588	-.2818	-.4973	-.5428	-.5517	.0000	-.5748	-.5601	-.4060	-.3148	-.2704	-.2482	-.2108
100.000						-.5413	-.5597	-.5628	-.5713	-.5680	-.4788	-.3420	-.2849	-.2679	-.2091
110.000						-.6156	-.6046	-.5929	-.5743	-.5192	-.4953	-.3987	-.3171	-.2948	-.2482
120.000						-.5348								-.4341	
130.000						-.5498								-.4299	
140.000						-.5278								-.4130	
150.000						-.4685								-.3753	
160.000						-.4166								-.3414	
170.000						-.4111								-.3062	
180.000						-.4350	-.4064	-.3784	-.3560	-.3453	-.3253	-.3120	-.2888	-.2758	-.2579

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1597	-.1188	-.0881	-.0711	-.0666	-.0722	-.0468	.0000	.0055	.0201	.0090	-.0248	-.0527	-.0554	-.0788
100.000	-.1820	-.1513	-.1258	-.1020	-.0873	-.0921	-.0784	-.0527	-.0081	-.0295	-.0024	-.0334	-.0456	-.0283	-.0598
110.000	-.2091	-.1764	-.1500	-.1184	-.1186	-.1113	-.1084	-.0847	-.0631	-.0521	-.0452	-.0625	-.0546	-.0558	-.0519
120.000						-.1053								-.0150	
130.000						-.1182								.0024	
140.000						-.1514								.0044	
150.000						-.2060								-.0032	
160.000						-.2902								-.0203	
170.000						-.3179								-.0399	
180.000	-.2584	-.2737	-.2754	-.2874	-.2942	-.3091	-.3183	-.2598	-.3008	-.2504	-.1792	-.1339	-.0980	-.0754	-.0064

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0107		
70.000							-.0279	-.0947	.0000
80.000							-.0586	-.1508	-.1676
90.000	.0000	.0000	.0000	.0552	-.0598	.0000	-.0922	-.1641	-.1719
100.000	.0000	.0000	.0005	.0094	-.0308	-.0667			
110.000	.0000	-.0202	.0212	.0592	.0431	-.0683			
120.000						-.0870			
130.000						-.0010			
140.000						.2653			
150.000						.2781			
160.000						.1812			
170.000						.1274			
180.000	-.0469	.0000	.1170	.1676	.2012	.3804			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.250 ALPHA (7) = 4.430

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0147	-.0200	-.1683												
70.000	.0246	.0197	-.0768												
80.000	.0379	.0271	-.0457												
90.000			-.0523	-.2776	-.5018	-.5504	-.5600	.0000	-.5859	-.5460	-.4181	-.3358	-.2779	-.2481	-.1912
100.000						-.5508	-.5672	-.5732	-.5830	-.5906	-.4532	-.3292	-.2744	-.2626	-.2090
110.000						-.6150	-.6040	-.5985	-.5909	-.5444	-.5042	-.3615	-.2922	-.2759	-.2338
120.000						-.5491								-.4186	
130.000						-.5759								-.4374	
140.000						-.5584								-.4283	
150.000						-.5041								-.3985	
160.000						-.4518								-.3685	
170.000						-.4434								-.3398	
180.000						-.4726	-.4417	-.4152	-.3913	-.3769	-.3578	-.3433	-.3205	-.3073	-.2874

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1265	-.0998	-.0733	-.0735	-.0669	-.0596	-.0319	.0000	.0129	.0156	.0034	-.0339	-.0653	-.0755	-.1036
100.000	-.1805	-.1476	-.1155	-.0872	-.0642	-.0692	-.0463	-.0362	.0065	-.0087	.0096	-.0268	-.0429	-.0425	-.0847
110.000	-.2072	-.1761	-.1486	-.1068	-.0925	-.0801	-.0614	-.0473	-.0246	-.0119	-.0107	-.0325	-.0299	-.0390	-.0623
120.000						-.0919								-.0335	
130.000						-.1052								-.0452	
140.000						-.1211								-.0276	
150.000						-.1447								-.0307	
160.000						-.1803								-.0291	
170.000						-.2713								-.0378	
180.000	-.2891	-.3000	-.3025	-.3102	-.3139	-.3204	-.3134	-.2265	-.2165	-.1662	-.1250	-.1008	-.0731	-.0562	-.0079

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0012		
70.000							-.0385	-.1093	.0000
80.000							-.0678	-.1694	-.1867
90.000	.0000	.0000	.0000	-.0216	-.0535	.0000	-.0992	-.1916	-.1860
100.000	.0000	.0000	-.0423	.0271	-.0035	-.0695			
110.000	.0000	-.0744	-.0050	.1159	.0970	-.0740			
120.000						-.0688			
130.000						.0676			
140.000						.2070			
150.000						.1701			
160.000						.1354			
170.000						.1476			
180.000	-.0892	.0000	.1164	.1439	.1678	.2880			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.250 ALPHA (8) = 8.559

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.26)	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	-.0078	-.0525	-.2059												
70.000	.0025	-.0169	-.0989												
80.000	.0095	-.0187	-.0514												
90.000			-.0496	-.2701	-.5009	-.5497	-.5598	.0000	-.5635	-.4452	-.4016	-.3240	-.2367	-.1959	-.1614
100.000						-.5509	-.5680	-.5765	-.5876	-.5405	-.3746	-.3129	-.2704	-.2609	-.1707
110.000						-.6083	-.6010	-.5997	-.5979	-.5695	-.3878	-.3226	-.2816	-.2688	-.2195
120.000						-.5561								-.2882	
130.000						-.5896								-.4225	
140.000						-.5802								-.4366	
150.000						-.5300								-.4106	
160.000						-.4781								-.3795	
170.000						-.4709								-.3489	
180.000						-.4979	-.4713	-.4442	-.4220	-.4057	-.3854	-.3644	-.3389	-.3278	-.3102

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1264	-.1157	-.1026	-.0927	-.0776	-.0714	-.0414	.0000	.0208	.0148	-.0001	-.0361	-.0697	-.0897	-.1277
100.000	-.1399	-.1264	-.1072	-.0869	-.0673	-.0691	-.0510	-.0222	.0231	-.0033	.0066	-.0329	-.0565	-.0610	-.1159
110.000	-.1632	-.1444	-.1132	-.0902	-.0621	-.0635	-.0512	-.0280	.0097	.0157	.0041	-.0212	-.0247	-.0439	-.0769
120.000						-.0567								-.0251	
130.000						-.0978								-.0349	
140.000						-.1035								-.0683	
150.000						-.1137								-.0559	
160.000						-.1298								-.0534	
170.000						-.1675								-.0536	
180.000	-.3102	-.3203	-.3216	-.3189	-.2990	-.2457	-.2027	-.1145	-.1439	-.1208	-.1013	-.0879	-.0726	-.0610	-.0302

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0315		
70.000							-.0677	-.1317	.0000
80.000							-.0905	-.1656	-.2086
90.000	.0000	.0000	.0000	.0167	-.0651	.0000	-.1138	-.2004	-.2021
100.000	.0000	.0000	-.0846	.0154	-.0133	-.0949			
110.000	.0000	-.1141	-.0420	.1105	.0764	-.1011			
120.000						-.0606			
130.000						.1020			
140.000						.2592			
150.000						.1394			
160.000						.1211			
170.000						.2173			
180.000	-.0980	.0000	.0771	.1105	.1450	.1242			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (8) = 1.250 ALPHA (9) = 8.679

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	-.0272	-.0807	-.2577												
70.000	-.0180	-.0538	-.1524												
80.000	-.0178	-.0406	-.0735												
90.000			-.0585	-.2709	-.5020	-.5514	-.5632	.0000	-.4239	-.3988	-.3732	-.2835	-.2067	-.1914	-.1759
100.000						-.5522	-.5725	-.5805	-.5486	-.4261	-.3772	-.3014	-.2256	-.2204	-.1503
110.000						-.6028	-.6021	-.6038	-.6050	-.4644	-.3640	-.3186	-.2595	-.2524	-.1755
120.000						-.5568								-.2398	
130.000						-.6003								-.2957	
140.000						-.5956								-.4246	
150.000						-.5475								-.4244	
160.000						-.4977								-.3902	
170.000						-.4927								-.3615	
180.000						-.5207	-.4978	-.4723	-.4469	-.4305	-.4072	-.3797	-.3520	-.3393	-.3261

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1397	-.1309	-.1114	-.0998	-.0936	-.0561	-.0262	.0000	.0166	-.0009	-.0201	-.0537	-.1018	-.1055	-.1474
100.000	-.1391	-.1383	-.1135	-.0808	-.0657	-.0777	-.0396	-.0083	.0216	-.0101	-.0062	-.0449	-.0674	-.0755	-.1214
110.000	-.1447	-.1180	-.0932	-.0787	-.0638	-.0723	-.0394	-.0107	.0110	.0119	-.0060	-.0284	-.0386	-.0566	-.0884
120.000						-.0400								-.0233	
130.000						.0659								-.0154	
140.000						-.0983								-.0586	
150.000						-.1065								-.0843	
160.000						-.1187								-.0881	
170.000						-.1284								-.0739	
180.000	-.3269	-.3362	-.3145	-.2574	-.2197	-.1731	-.1470	-.0749	-.1232	-.1117	-.0975	-.0861	-.0788	-.0747	-.0899

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0539		
70.000							-.0890	-.1535	.0000
80.000							-.1063	-.2047	-.2265
90.000	.0000	.0000	.0000	.0314	-.0772	.0000	-.1172	-.2168	-.2146
100.000	.0000	.0000	-.1121	-.0574	-.0294	-.1177			
110.000	.0000	-.1309	-.0813	.0785	.0243	-.1401			
120.000						-.0576			
130.000						.0971			
140.000						.3162			
150.000						.1840			
160.000						.1571			
170.000						.2832			
180.000	-.1149	.0000	.0218	.0809	.1271	.1034			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.400 ALPHA (1) = -8.473

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2203	.2592	.0252												
70.000	.2137	.2622	.0955												
80.000	.2312	.2218	.0996												
90.000			.0178	-.1794	-.3285	-.3756	-.3758	.0000	-.3799	-.3759	-.3059	-.2269	-.1599	-.1392	-.1274
100.000						-.3756	-.3868	-.3966	-.3759	-.3315	-.3089	-.3063	-.2525	-.2306	-.1810
110.000						-.4951	-.4837	-.4703	-.4095	-.3506	-.3414	-.3563	-.3576	-.3520	-.3262
120.000						-.3283								-.3324	
130.000						-.2875								-.2635	
140.000						-.2528								-.2099	
150.000						-.1824								-.1604	
160.000						-.1352								-.1216	
170.000						-.1446								-.0904	
180.000						-.1471	-.1231	-.1010	-.0907	-.0882	-.0714	-.0686	-.0589	-.0602	-.0589

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0932	-.0854	-.0770	-.0764	-.0774	-.0861	-.0818	.0000	-.0826	-.0731	-.0632	-.0847	-.1112	-.1076	-.1246
100.000	-.1703	-.1664	-.1614	-.1425	-.1455	-.1791	-.1884	-.1958	-.1777	-.1647	-.1385	-.1248	-.1239	-.1176	-.1296
110.000	-.3199	-.2913	-.2493	-.1795	-.1795	-.1571	-.1454	-.1314	-.1170	-.0975	-.0765	-.0606	-.0572	-.0632	-.0580
120.000						-.2058								-.0739	
130.000						-.2691								-.1332	
140.000						-.2303								-.1648	
150.000						-.1784								-.1640	
160.000						-.1517								-.1553	
170.000						-.1218								-.1411	
180.000	-.0859	-.0764	-.0665	-.0874	-.0871	-.0985	-.1057	-.1159	-.1186	-.1159	-.1085	-.1133	-.1076	-.1097	-.0963

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1808		
70.000							.0964	-.0209	.0000
80.000							-.0027	-.0834	-.0803
90.000	.0000	.0000	.0000	.1089	-.0282	.0000	-.0302	-.0790	-.0362
100.000	.0000	.0000	.0458	.0284	.0143	.0009			
110.000	.0000	-.0283	.0615	.0200	.0163	-.0466			
120.000						-.2354			
130.000						-.0347			
140.000						.4220			
150.000						.4984			
160.000						.4538			
170.000						.2485			
180.000	-.0198	.0000	.0898	.2887	.3755	.5787			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REDUCED)

MACH (9) = 1.400 ALPHA (2) = -6.386

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1865	.2330	.0088												
70.000	.1862	.2465	.0805												
80.000	.1932	.2073	.0916												
90.000			.0268	-.1754	-.3476	-.3857	-.3891	.0000	-.4028	-.3964	-.3502	-.2454	-.1838	-.1635	-.1538
100.000						-.3863	-.3917	-.4009	-.4006	-.3651	-.3302	-.3159	-.2601	-.2357	-.1773
110.000						-.4927	-.4837	-.4756	-.4163	-.3625	-.3403	-.3415	-.3426	-.3456	-.3318
120.000						-.3482								-.3458	
130.000						-.3197								-.2855	
140.000						-.2915								-.2398	
150.000						-.2315								-.1885	
160.000						-.1805								-.1569	
170.000						-.1823								-.1241	
180.000						-.1878	-.1654	-.1429	-.1313	-.1260	-.1084	-.1037	-.0944	-.0953	-.0920

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1174	-.1094	-.1008	-.0980	-.0976	-.1026	-.0982	.0000	-.0910	-.0747	-.0618	-.0785	-.1065	-.1076	-.1183
100.000	-.1562	-.1445	-.1355	-.1264	-.1325	-.1551	-.1586	-.1737	-.1661	-.1775	-.1398	-.1387	-.1383	-.1319	-.1396
110.000	-.3356	-.3207	-.2819	-.1865	-.2051	-.1957	-.1718	-.1552	-.1375	-.1182	-.0957	-.0845	-.0815	-.0862	-.0839
120.000						-.2143								-.0915	
130.000						-.2813								-.1447	
140.000						-.2521								-.1781	
150.000						-.2070								-.1847	
160.000						-.1830								-.1822	
170.000						-.1552								-.1722	
180.000	-.0959	-.1049	-.0965	-.1159	-.1206	-.1324	-.1419	-.1512	-.1580	-.1576	-.1440	-.1478	-.1451	-.1451	-.0855

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1402		
70.000							.0666	-.0152	.0000
80.000							-.0144	-.0904	-.0828
90.000	.0000	.0000	.0000	.0591	-.0488	.0000	-.0605	-.0996	-.0564
100.000	.0000	.0000	.0012	-.0269	-.0085	-.0215			
110.000	.0000	-.0910	.0235	.0078	.0010	-.0659			
120.000						-.2272			
130.000						-.0294			
140.000						.3923			
150.000						.4423			
160.000						.3855			
170.000						.2394			
180.000	-.0431	.0000	.0427	.2384	.3256	.5785			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8026)

MACH (9) = 1.400 ALPHA (3) = -4.138

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1961	.1858	-.0126												
70.000	.1587	.2095	.0634												
80.000	.1324	.2043	.0809												
90.000			.0318	-.1719	-.3564	-.3985	-.4023	.0000	-.4226	-.4346	-.3800	-.2634	-.2029	-.1859	-.1663
100.000						-.3985	-.4065	-.4112	-.4170	-.4010	-.3685	-.3465	-.2723	-.2455	-.1685
110.000						-.4913	-.4842	-.4748	-.4251	-.3804	-.3580	-.3541	-.3513	-.3375	-.3100
120.000						-.3673								-.3451	
130.000						-.3524								-.3038	
140.000						-.3280								-.2623	
150.000						-.2812								-.2173	
160.000						-.2260								-.1839	
170.000						-.2205								-.1551	
180.000						-.2299	-.2069	-.1842	-.1718	-.1650	-.1498	-.1383	-.1303	-.1291	-.1246

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1402	-.1288	-.1175	-.1161	-.1145	-.1130	-.1085	.0000	-.0900	-.0712	-.0505	-.0659	-.0932	-.0971	-.0971
100.000	-.1897	-.1548	-.1440	-.1348	-.1331	-.1473	-.1520	-.1521	-.1423	-.1523	-.1165	-.1225	-.1290	-.1273	-.1319
110.000	-.3137	-.3214	-.3074	-.2093	-.2394	-.2131	-.1948	-.1762	-.1550	-.1339	-.1153	-.1000	-.0939	-.1013	-.0953
120.000						-.2075								-.0848	
130.000						-.2983								-.1267	
140.000						-.2693								-.1737	
150.000						-.2327								-.1881	
160.000						-.2122								-.2135	
170.000						-.1844								-.2092	
180.000	-.1284	-.1365	-.1296	-.1481	-.1513	-.1654	-.1777	-.1772	-.1969	-.1937	-.1830	-.1866	-.1802	-.1822	-.1753

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9030	.9400
PHI									
60.000							.1043		
70.000							.0418	-.0157	.0000
80.000							-.0128	-.0980	-.0968
90.000	.0000	.0000	.0000	.0705	-.0423	.0000	-.0793	-.1292	-.0845
100.000	.0000	.0000	-.0091	-.0077	-.0172	-.0252			
110.000	.0000	-.0850	.0022	.0236	.0161	-.0524			
120.000						-.2031			
130.000						-.0013			
140.000						.3790			
150.000						.3994			
160.000						.3056			
170.000						.2197			
180.000	-.0733	.0000	.0494	.1911	.2661	.5049			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB029)

MACH (8) = 1.399 ALPHA (4) = -2.044

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1370	.1386	-.0300												
90.000	.1360	.1683	.0499												
80.000	.1379	.1709	.0731												
93.000			.0389	-.1690	-.3586	-.4038	-.4129	.0000	-.4363	-.4327	-.4287	-.3292	-.2302	-.2056	-.1768
100.000						-.4029	-.4166	-.4217	-.4285	-.4255	-.3928	-.3765	-.3161	-.2733	-.2004
110.000						-.4842	-.4791	-.4707	-.4360	-.3928	-.3721	-.3666	-.3876	-.3726	-.3060
120.000						- 796								-.3517	
130.000						-.3770								-.3183	
140.000						-.3558								-.2647	
150.000						-.3119								-.2442	
160.000						-.2574								-.2114	
170.000						-.2520								-.1849	
180.000						-.2681	-.2481	-.2229	-.2100	-.2013	-.1833	-.1761	-.1643	-.1610	-.1541

X/L	.4500	.4680	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1552	-.1425	-.1313	-.1242	-.1203	-.1158	-.1034	.0000	-.0777	-.0546	-.0341	-.0525	-.0712	-.0745	-.0815
100.000	-.1823	-.1692	-.1545	-.1410	-.1360	-.1366	-.1313	-.1252	-.1059	-.1044	-.0773	-.0902	-.0972	-.0892	-.1082
110.000	-.2944	-.2959	-.2870	-.2118	-.2500	-.2325	-.2177	-.1925	-.1692	-.1457	-.1282	-.1157	-.1115	-.1142	-.1107
120.000						-.2036								-.0735	
130.000						-.3035								-.0919	
140.000						-.2855								-.1392	
150.000						-.2497								-.1818	
160.000						-.2296								-.2379	
170.000						-.2101								-.2406	
180.000	-.1543	-.1642	-.1567	-.1735	-.1780	-.1919	-.2002	-.2027	-.2230	-.2239	-.21 9	-.2209	-.2135	-.2156	-.2052

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0899		
90.000							.0132	-.0333	.0000
80.000							-.0227	-.0980	-.1181
90.000	.0000	.0000	.0000	.0806	-.0354	.0000	-.0852	-.1394	-.1201
100.000	.0000	.0000	-.0171	-.0025	-.0320	-.0407			
110.000	.0000	-.0857	-.0041	.0367	.0203	-.0439			
120.000						-.1659			
130.000						.0269			
140.000						.3680			
150.000						.3513			
160.000						.2303			
170.000						.1775			
180.000	-.0880	.0000	.0817	.1463	.2042	.4241			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.400 ALPHA (5) = .093

SECTION (1)ORE. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1271	.0989	-.0544												
70.000	.1290	.1318	.0309												
80.000	.1284	.1320	.0628												
90.000			.0463	-.1439	-.361	-.4071	-.4154	.0000	-.4400	-.4567	-.4425	-.4004	-.2963	-.2489	-.1985
100.000						-.4071	-.4233	-.4282	-.4351	-.4387	-.4053	-.3846	-.3643	-.3408	-.2274
110.000						-.4282	-.4732	-.4665	-.4458	-.4038	-.3799	-.3718	-.3716	-.3796	-.3413
120.000						-.3919								-.3542	
130.000						-.4009								-.3303	
140.000						-.3815								-.3055	
150.000						-.3408								-.2702	
160.000						-.2901								-.2405	
170.000						-.2824								-.2181	
180.000						-.3061	-.2795	-.2570	-.2412	-.2296	-.2140	-.2089	-.1981	-.1989	-.1946

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1718	-.1522	-.1367	-.1277	-.1176	-.1060	-.0905	.0000	-.0510	-.0298	-.0158	-.0336	-.0596	-.0634	-.0775
100.000	-.1961	-.1751	-.1574	-.1419	-.1284	-.1172	-.1096	-.0916	-.0651	-.0560	-.0349	-.0474	-.0620	-.0560	-.0746
110.000	-.2909	-.2731	-.2606	-.1949	-.2201	-.2168	-.2056	-.1838	-.1596	-.1431	-.1196	-.1117	-.1107	-.1175	-.1128
120.000						-.1962								-.0660	
130.000						-.3045								-.0635	
140.000						-.2973								-.0884	
150.000						-.2591								-.1331	
160.000						-.2593								-.2111	
170.000						-.2314								-.2598	
180.000	-.1908	-.1916	-.1848	-.1975	-.2016	-.2121	-.2010	-.2130	-.2465	-.2494	-.2422	-.2425	-.2393	-.2418	-.2320

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0414		
70.000							-.0096	-.0438	.0000
80.000							-.0420	-.1054	-.1234
90.000	.0000	.0000	.0000	.0795	-.0321	.0000	-.0834	-.1450	-.1357
100.000	.0000	.0000	-.0350	.0156	-.0190	-.0325			
110.000	.0000	-.0804	-.0206	.0503	.0321	-.0357			
120.000						-.0910			
130.000						.0189			
140.000						.3342			
150.000						.2676			
160.000						.1694			
170.000						.1371			
180.000	-.0975	.0000	.0366	.1135	.1594	.3590			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.401 ALPHA (6) = 2.241

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1209	.0758	-.0886												
70.000	.1245	.1049	.0098												
80.000	.1282	.0982	.0521												
90.000			.0542	-.1548	-.3585	-.4049	-.4148	.0000	-.4445	-.4630	-.4557	-.4240	-.3478	-.2804	-.2093
100.000						-.4058	-.4225	-.4294	-.4399	-.4503	-.4277	-.3996	-.3782	-.3649	-.2373
110.000						-.4678	-.4623	-.4576	-.4503	-.4152	-.3885	-.3799	-.3812	-.3886	-.3575
120.000						-.4021								-.3567	
130.000						-.4207								-.3308	
140.000						-.4045								-.3190	
150.000						-.3643								-.2891	
160.000						- 3184								-.2641	
170.000						-.3112								-.2429	
180.000						-.3386	-.3117	-.2872	-.2703	-.2571	-.2421	-.2352	-.2275	-.2272	-.2240

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1781	-.1548	-.1367	-.1202	-.1025	-.0877	-.0728	.0000	-.0361	-.0177	-.0041	-.0249	-.0490	-.0569	-.0773
100.000	-.1969	-.1729	-.1507	-.1297	-.1075	-.0883	-.0797	-.0622	-.0406	-.0314	-.0101	-.0247	-.0403	-.0403	-.0652
110.000	-.2843	-.2448	-.2238	-.1663	-.1710	-.1544	-.1403	-.1212	-.0973	-.0825	-.0651	-.0613	-.0586	-.0649	-.0751
120.000						-.1723								-.0575	
130.000						-.2653								-.0522	
140.000						-.3068								-.0556	
150.000						-.2754								-.0747	
160.000						-.2634								-.1079	
170.000						-.2494								-.1994	
180.000	-.2246	-.2238	-.2134	-.2199	-.2223	-.2350	-.2456	-.1958	-.2638	-.2648	-.2583	-.2615	-.2573	-.2547	-.1988

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0241		
70.000							-.0294	-.0631	.0000
80.000							-.0668	-.1180	-.1261
90.000	.0000	.0000	.0000	.0418	-.0297	.0000	-.0933	-.1495	-.1372
100.000	.0000	.0000	-.0528	.0071	.0049	-.0225			
110.000	.0000	-.0764	-.0442	.0568	.0691	-.0227			
120.000						-.0636			
130.000						.0187			
140.000						.2622			
150.000						.1823			
160.000						.1260			
170.000						.0952			
180.000	-.0687	.0000	.0482	.0969	.1231	.2850			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.399 ALPHA (7) = 4.326

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1645	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.1056	.0511	-.1309												
70.000	.1135	.0767	-.0284												
80.000	.1068	.0912	.0468												
90.000			.0571	-.1455	-.3613	-.4108	-.4214	.0000	-.4515	-.4710	-.4659	-.4447	-.3826	-.3094	-.2164
100.000						-.4105	-.4280	-.4366	-.4511	-.4625	-.4477	-.4173	-.3942	-.3830	-.2444
110.000						-.4604	-.4597	-.4590	-.4590	-.4378	-.4040	-.3929	-.3955	-.4013	-.3552
120.000						-.4112								-.3656	
130.000						-.4392								-.3408	
140.000						-.4279								-.3398	
150.000						-.3885								-.3102	
160.000						-.3455								-.2879	
170.000						-.3400								-.2693	
180.000						-.3712	-.3445	-.3184	-.2994	-.2866	-.2713	-.2633	-.2538	-.2540	-.2472

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1858	-.1601	-.1358	-.1125	-.0891	-.0766	-.0594	.0000	-.0191	-.0058	.0030	-.0223	-.0492	-.0594	-.0799
100.000	-.1996	-.1709	-.1446	-.1136	-.0932	-.0744	-.0676	-.0530	-.0267	-.0253	-.0010	-.0164	-.0350	-.0384	-.0662
110.000	-.2667	-.2245	-.1937	-.1425	-.1313	-.1095	-.0930	-.0727	-.0498	-.0376	-.0219	-.0217	-.0284	-.0414	-.0557
120.000						-.1552								-.0799	
130.000						-.1977								-.0770	
140.000						-.2987								-.0710	
150.000						-.2919								-.0751	
160.000						-.2798								-.0888	
170.000						-.2684								-.1151	
180.000	-.2471	-.2488	-.2392	-.2480	-.2473	-.2578	-.2658	-.2108	-.2843	-.2834	-.2740	-.2693	-.2380	-.1833	-.0912

X/L	.7250	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0099		
70.000							-.0466	-.0682	.0000
80.000							-.0855	-.1285	-.1391
90.000	.0000	.0000	.0000	.0383	-.0214	.0000	-.1044	-.1606	-.1402
100.000	.0000	.0000	-.0676	.0218	.0285	-.0244			
110.000	.0000	-.0955	-.0658	.0800	.1276	-.0158			
120.000						-.0259			
130.000						.0782			
140.000						.1953			
150.000						.1333			
160.000						.0943			
170.000						.1213			
180.000	-.0683	.0000	.0265	.0819	.0991	.1882			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.399 ALPHA (8) = 6.513

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0819	.0248	-.1620												
70.000	.0795	.0475	-.0738												
80.000	.0733	.0661	.0054												
90.000			.0479	-.1440	-.3626	-.4124	-.4233	.0000	-.4530	-.4714	-.4669	-.4515	-.3371	-.2725	-.2072
100.000						-.4120	-.4299	-.4393	-.4520	-.4667	-.4642	-.4334	-.3888	-.3263	-.2190
110.000						-.4540	-.4556	-.4580	-.4614	-.4599	-.4224	-.4011	-.3972	-.3940	-.2520
120.000						-.4161								-.3670	
130.000						-.4514								-.3459	
140.000						-.4480								-.3472	
150.000						-.4082								-.3278	
160.000						-.3711								-.3061	
170.000						-.3643								-.2891	
180.000						-.3934	-.3736	-.3477	-.3294	-.3148	-.3015	-.2917	-.2796	-.2764	-.2647

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1699	-.1440	-.1143	-.0926	-.0755	-.0689	-.0541	.0000	-.0126	-.0017	.0005	-.0267	-.0594	-.0714	-.0991
100.000	-.1650	-.1576	-.1339	-.1074	-.0872	-.0799	-.0691	-.0499	-.0219	-.0210	.0045	-.0204	-.0447	-.0477	-.0790
110.000	-.2069	-.1759	-.1468	-.1117	-.0945	-.0784	-.0693	-.0530	-.0329	-.0128	-.0037	-.0130	-.0267	-.0414	-.0606
120.000						-.1245								-.0757	
130.000						-.1456								-.0803	
140.000						-.1873								-.0856	
150.000						-.2524								-.0862	
160.000						-.2869								-.0882	
170.000						-.2874								-.0937	
180.000	-.2832	-.2640	-.2587	-.2657	-.2711	-.2812	-.2876	-.2373	-.3003	-.2719	-.2247	-.1718	-.1316	-.1134	-.0801

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0080		
70.000							-.0572	-.0786	.0000
80.000							-.1123	-.1449	-.1539
90.000	.0000	.0000	.0000	.0079	-.0451	.0000	-.1170	-.1806	-.1568
100.000	.0000	.0000	-.0972	.0106	.0303	-.0331			
110.000	.0000	-.1098	-.0969	.0884	.1115	-.0399			
120.000						.0147			
130.000						.1254			
140.000						.2090			
150.000						.1056			
160.000						.0934			
170.000						.1605			
180.000	-.0766	.0000	-.0035	.0574	.0839	.0821			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (9) = 1.399 ALPHA (9) = 8.582

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0484	-.0038	-.1824												
70.000	.0410	.0208	-.1076												
80.000	.0335	.0378	-.0550												
90.000			.0155	-.1522	-.3664	-.4156	-.4252	.0000	-.4563	-.4751	-.4702	-.4046	-.2944	-.2562	-.1916
100.000						-.4148	-.4320	-.4425	-.4569	-.4717	-.4777	-.4488	-.2953	-.2573	-.2006
110.000						-.4550	-.4569	-.4631	-.4676	-.4766	-.4462	-.4169	-.3686	-.2976	-.2103
120.000						-.4227								-.3043	
130.000						-.4641								-.3517	
140.000						-.4698								-.3526	
150.000						-.4311								-.3393	
160.000						-.3953								-.3198	
170.000						-.3895								-.3043	
180.000						-.4150	-.3984	-.3759	-.3575	-.3408	-.3262	-.3153	-.2967	-.2920	-.2767

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1523	-.1260	-.1001	-.0861	-.0751	-.0758	-.0612	.0000	-.0178	-.0027	-.0076	-.0411	-.0739	-.0824	-.1134
100.000	-.1739	-.1458	-.1217	-.0971	-.0796	-.0760	-.0655	-.0502	-.0150	-.0227	-.0012	-.0309	-.0553	-.0578	-.0925
110.000	-.1836	-.1585	-.1361	-.1047	-.0891	-.0745	-.0625	-.0462	-.0290	-.0133	-.0050	-.0192	-.0335	-.0443	-.0680
120.000						-.0893								-.0682	
130.000						-.1221								-.0699	
140.000						-.1354								-.0947	
150.000						-.1615								-.1032	
160.000						-.1990								-.1021	
170.000						-.2696								-.0983	
180.000	-.2739	-.2782	-.2744	-.2843	-.2881	-.2980	-.2931	-.1979	-.2164	-.1685	-.1409	-.1272	-.1142	-.1030	-.0862

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0277		
70.000							-.0788	-.0887	.0000
80.000							-.1200	-.1484	-.1509
90.000	.0000	.0000	.0000	.0009	-.0475	.0000	-.1304	-.1865	-.1502
100.000	.0300	.0000	-.1153	-.0147	.0012	-.0572			
110.000	.0000	-.1276	-.1225	.0893	.0963	-.0646			
120.000						.0379			
130.000						.1742			
140.000						.2337			
150.000						.0752			
160.000						.0925			
170.000						.1920			
180.000	-.0896	.0000	-.0443	.0409	.0811	.0486			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (10) = 1.503 ALPHA (1) = -8.608

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2071	.2792	.0797												
70.000	.1913	.3007	.1520												
80.000	.2044	.2742	.1608												
90.000			.0911	-.0872	-.2462	-.3083	-.3129	.0000	-.3250	-.3325	-.2876	-.2272	-.1518	-.1244	-.1023
100.000						-.3075	-.3197	-.3338	- 3226	-.2898	-.2659	-.2692	-.2438	-.2056	-.1465
110.000						-.4177	-.4109	-.4060	-.3650	-.3019	-.2859	-.3019	-.3187	-.3272	-.2995
120.000						-.2644								-.2851	
130.000						-.2295								-.2100	
140.000						-.2051								-.1572	
150.000						-.1634								-.1131	
160.000						-.1063								-.0764	
170.000						-.1050								-.0471	
180.000						-.1115	-.0874	-.0681	-.0562	-.0512	-.0358	-.0347	-.0260	-.0234	-.0146

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0687	-.0559	-.0411	-.0382	-.0380	-.0488	-.0456	.0000	-.0467	-.0404	-.0304	-.0513	-.0747	-.0741	-.0038
100.000	-.1291	-.1174	-.1030	-.0853	-.0906	-.1234	-.1008	-.1182	-.1386	-.1544	-.1163	-.1012	-.1006	-.0908	-.0717
110.000	-.2978	-.2843	-.2461	-.1452	-.1570	-.1240	-.1177	-.1060	-.0928	-.0745	-.0539	-.0371	-.0341	-.0378	-.0839
120.000						-.1831								-.0435	
130.000						-.2235								-.1060	
140.000						-.1773								-.1545	
150.000						-.1258								-.1547	
160.000						-.0982								-.1265	
170.000						-.0699								-.1080	
180.000	-.0150	-.0207	-.0086	-.0311	-.0334	-.0436	-.0706	-.0975	-.0808	-.0819	-.0754	-.0797	-.0728	-.0741	-.0506

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1607		
70.000							.0909	.0144	.0000
80.000							.0214	-.0821	-.0802
90.000	.0000	.0000	.0000	.0101	-.0169	.0000	-.0244	-.0772	-.0311
100.000	.0000	.0000	.0020	.0126	.0263	.0132			
110.000	.0000	-.0158	.0579	.0447	.0256	-.0226			
120.000						-.1853			
130.000						.0221			
140.000						.4452			
150.000						.4963			
160.000						.4463			
170.000						.2735			
180.000	-.0178	.0000	.0726	.2646	.3642	.3727			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A29/0A63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (10) = 1.502 ALPHA (2) = -6.409

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1881	.2251	.0590												
70.000	.1754	.2394	.1339												
80.000	.1824	.2453	.1506												
90.000			.0941	-.0983	-.2599	-.3179	-.3242	.0000	-.3429	-.3524	-.3216	-.2683	-.1901	-.1536	-.1291
100.000						-.3172	-.3253	-.3359	-.3392	-.3179	-.2907	-.2856	-.2690	-.2391	-.1616
110.000						-.4129	-.4086	-.4101	-.3647	-.3118	-.2882	-.2907	-.3024	-.3183	-.3023
120.000						-.2823								-.2931	
130.000						-.2603								-.2327	
140.000						-.2379								-.1854	
150.000						-.2017								-.1437	
160.000						-.1491								-.1101	
170.000						-.1412								-.0847	
180.000						-.1541	-.1298	-.1076	-.0964	-.0924	-.0768	-.0732	-.0623	-.0610	-.0537

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0928	-.0785	-.0652	-.0601	-.0603	-.0670	-.0662	.0000	-.0536	-.0398	-.0282	-.0430	-.0652	-.0734	-.0945
100.000	-.1399	-.1235	-.1056	-.0875	-.0866	-.1078	-.1123	-.1212	-.1214	-.1462	-.1170	-.1116	-.1125	-.1079	-.1251
110.000	-.2985	-.3032	-.2826	-.1686	-.1956	-.1635	-.1488	-.1332	-.1171	-.0984	-.0788	-.0621	-.0589	-.0625	-.0[illegible]6
120.000						-.2046								-.0636	
130.000						-.2375								-.1155	
140.000						-.1966								-.1781	
150.000						-.1525								-.1829	
160.000						-.1281								-.1581	
170.000						-.1006								-.1407	
180.000	-.0526	-.0593	-.0482	-.0661	-.0677	-.0780	-.0869	-.1177	-.1116	-.1127	-.1079	-.1131	-.1097	-.1138	-.1050

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1177		
70.000							.0517	.0002	.0000
80.000							-.004[illegible]	-.0907	-.0889
90.000	.0000	.0000	.0000	-.0356	-.0349	.0000	-.0614	-.1074	-.0613
100.000	.0000	.0000	-.0220	-.0062	-.0055	-.0112			
110.000	.0000	-.0733	.0098	.0212	.0083	-.0421			
120.000						-.1929			
130.000						.0162			
140.000						.4061			
150.000						.4414			
160.000						.3532			
170.000						.2199			
180.000	-.0548	.0000	.0172	.2021	.2960	.4740			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (10) = 1.501 ALPHA (3) = -4.193

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1707	.1839	.0340												
70.000	.1642	.1949	.1140												
80.000	.1652	.2032	.1394												
90.000			.1017	-.0957	-.2656	-.3250	-.3337	.0000	-.3566	-.3719	-.3493	-.3039	-.2278	-.1887	-.1502
100.000						-.3237	-.3377	-.3419	-.3504	-.3432	-.3146	-.3056	-.2930	-.2713	-.1601
110.000						-.4082	-.4062	-.4066	-.3699	-.3249	-.3003	-.2961	-.3036	-.3139	-.3073
120.000						-.2967								-.2943	
130.000						-.2871								-.2497	
140.000						-.2684								-.2123	
150.000						-.2351								-.1728	
160.000						-.1865								-.1418	
170.000						-.1764								-.1176	
180.000						-.1883	-.1662	-.1465	-.1317	-.1267	-.1129	-.1109	-.1005	-.0944	-.0870

X/L	.4500	.4660	.4860	.5050	.5240	.5460	.5610	.5800	.5980	6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1167	-.1030	-.0886	-.0811	-.0782	-.0827	-.0806	.0000	-.0619	-.0404	-.0233	-.0321	-.0567	-.0665	-.0798
100.000	-.1544	-.1355	-.1178	-.1014	-.0948	-.1089	-.1120	-.1162	-.1088	-.1250	-.1005	-.1049	-.1057	-.1057	-.1183
110.000	-.2819	-.2890	-.3047	-.1909	-.2309	-.2022	-.1830	-.1622	-.1422	-.1212	-.1001	-.0843	-.0808	-.0892	-.0897
120.000						-.2130								-.0760	
130.000						-.2529								-.1209	
140.000						-.2132								-.1895	
150.000						-.1759								-.2087	
160.000						-.1546								-.1863	
170.000						-.1298								-.1715	
180.000	-.0858	-.0906	-.0789	-.0961	-.0972	-.1096	-.1194	-.1522	-.1409	-.1444	-.1390	-.1468	-.1450	-.1464	-.1357

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0893		
70.000							.0328	-.0040	.0000
80.000							-.0091	-.0757	-.0856
90.000	.0000	.0000	.0000	-.0546	-.0337	.0000	-.0704	-.1180	-.0817
100.000	.0000	.0000	-.0358	-.0178	-.0241	-.0257			
110.000	.0000	-.0973	-.0201	.0114	.0043	-.0422			
120.000						-.1786			
130.000						.0172			
140.000						.3769			
150.000						.3900			
160.000						.2960			
170.000						.1684			
180.000	-.0703	.0059	-.0107	.1479	.2386	.4442			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (10) = 1.500 ALPHA (4) = -2.142

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1812	.1614	.0023												
70.000	.1512	.1768	.0922												
80.000	.1534	.1775	.1255												
90.000			.1055	-.0834	-.2713	-.3293	-.3398	.0000	-.3673	-.3831	-.3690	-.3357	-.2765	-.2294	-.1775
100.000						-.3286	-.3442	-.3506	-.3594	-.3611	-.3352	-.3214	-.3077	-.2995	-.2113
110.000						-.4016	-.4031	-.4033	-.3747	-.3354	-.3128	-.3079	-.3103	-.3198	-.3194
120.000						-.3087								-.2964	
130.000						-.3085								-.2637	
140.000						-.2911								-.2308	
150.000						-.2591								-.1950	
160.000						-.2189								-.1689	
170.000						-.2026								-.1478	
180.000						-.2215	-.1980	-.1786	-.1639	-.1571	-.1435	-.1332	-.1319	-.1271	-.1262

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1412	-.1246	-.1084	-.0974	-.0927	-.0921	-.0873	.0000	-.0568	-.0321	-.0147	-.0281	-.0499	-.0560	-.0669
100.000	-.1744	-.1526	-.1370	-.1182	-.1082	-.1126	-.1103	-.1048	-.0886	-.0944	-.0707	-.0749	-.0790	-.0779	-.0949
110.000	-.2848	-.2740	-.2910	-.2062	-.2548	-.2329	-.2143	-.1908	-.1689	-.1446	-.1226	-.1092	-.1063	-.1109	-.1104
120.000						-.2221								-.0744	
130.000						-.2667								-.0996	
140.000						-.2273								-.1702	
150.000						-.1921								-.2182	
160.000						-.1739								-.2117	
170.000						-.1530								-.2011	
180.000	-.1217	-.1213	-.1104	-.1195	-.1253	-.1346	-.1441	-.1833	-.1674	-.1715	-.1693	-.1743	-.1732	-.1774	-.1478

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0582		
70.000							.0159	-.0184	.0000
80.000							-.0141	-.0816	-.0950
90.000	.0000	.0000	.0000	-.0537	-.0222	.0000	-.0633	-.1269	-.1093
100.000	.0000	.0000	-.0472	-.0185	-.0306	-.0305			
110.000	.0000	-.0888	-.0278	.0269	.0160	-.0288			
120.000						-.1308			
130.000						.0269			
140.000						.3502			
150.000						.3567			
160.000						.2277			
170.000						.1473			
180.000	-.0852	.0000	.0082	.1202	.1943	.3901			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (10) = 1.501 ALPHA (9) = .033

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1566	.1369	-.0325												
70.000	.1393	.1560	.0618												
80.000	.1257	.1413	.1068												
90.000			.1060	-.0947	-.2740	-.3323	-.3451	.0000	-.3739	-.3904	-.3811	-.3497	-.3129	-.2914	-.2228
100.000						-.3334	-.3504	-.3585	-.3690	-.3767	-.3528	-.3342	-.3146	-.3124	-.2699
110.000						-.3978	-.4002	-.3983	-.3803	-.3475	-.3247	-.3166	-.3195	-.3241	-.3213
120.000						-.3196								-.3005	
130.000						-.3292								-.2746	
140.000						-.3149								-.2514	
150.000						-.2813								-.2171	
160.000						-.2437								-.1925	
170.000						-.2284								-.1711	
180.000						- 2497	-.2277	-.2092	-.1952	-.1877	-.1752	-.1695	-.1607	-.1558	-.1514

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1713	-.1453	-.1256	-.1086	-.0980	-.0925	-.0817	.0000	-.0387	-.0159	-.0050	-.0126	-.0295	-.0398	-.0484
100.000	-.2164	-.1785	-.1539	-.1320	-.1163	-.1112	-.1028	-.0902	-.0650	-.0609	-.0371	-.0389	-.0434	-.0435	-.0570
110.000	-.3112	-.2775	-.2634	-.1993	-.2453	-.2331	-.2202	-.1995	-.1808	-.1611	-.1382	-.1240	-.1142	-.1147	-.1172
120.000						-.2426								-.0732	
130.000						-.2815								-.0793	
140.000						-.2443								-.1318	
150.000						-.2119								-.2235	
160.000						-.1956								-.2337	
170.000						-.1791								-.2265	
180.000	-.1530	-.1592	-.1458	-.1526	-.1544	.1621	-.1696	-.1961	-.1897	-.1948	-.1929	-.2007	-.2009	-.2046	-.1968

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
60.000							.0283		
70.000							-.0040	-.0368	.0000
80.000							-.0269	-.0824	-.0992
90.000	.0000	.0000	.0000	.0067	-.0195	.0000	-.0527	-.1162	-.1215
100.000	.0000	.0000	-.0684	-.0080	-.0026	-.0016			
110.000	.0000	-.0665	-.0271	.0280	.0315	-.0113			
120.000						-.0680			
130.000						.0364			
140.000						.3052			
150.000						.2360			
160.000						.1561			
170.000						.1079			
180.000	-.0841	.0000	-.0187	.0819	.1443	.3276			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (I0) = 1.501 ALPHA (6) = 2.231

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2 20	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1474	.1110	-.0673												
70.000	.1185	.1356	.0330												
80.000	.1005	.1325	.0904												
90.000			.1029	-.0936	-.2791	-.3355	-.3446	.0000	-.3719	-.3905	-.3841	-.3626	-.3281	-.3113	-.2499
100.000						-.3359	-.3527	-.3596	-.3707	-.3806	-.3642	-.3418	-.3213	-.3197	-.2857
110.000						-.3926	-.3934	-.3918	-.3826	-.3587	-.3314	-.3215	-.3217	-.3262	-.3219
120.000						-.3294								-.3003	
130.000						-.3467								-.2784	
140.000						-.3346								-.2645	
150.000						-.3004								-.2379	
160.000						-.2653								-.2128	
170.000						-.2571								-.1960	
180.000						-.2795	-.2570	-.2395	-.2272	-.2168	-.2037	-.1975	-.1847	-.1818	-.1781

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1864	-.1546	-.1299	-.1144	-.1025	-.0885	-.0672	.0000	-.0223	-.0049	.0018	-.0082	-.0275	-.0362	-.0497
100.000	-.2366	-.1816	-.1550	-.1307	-.1113	-.1029	-.0677	-.0659	-.0366	-.0507	-.123	-.0140	-.0240	-.0294	-.0475
110.000	-.3115	-.2784	-.2388	-.1787	-.1990	-.1816	-.1685	-.1470	-.1291	-.1157	-.0915	-.0750	-.0659	-.0698	-.0755
120.000						-.2251								-.0685	
130.000						-.2901								-.0677	
140.000						-.2599								-.0859	
150.000						-.2301								-.1159	
160.000						-.2177								-.2258	
170.000						-.2067								-.2412	
180.000	-.1778	-.1631	-.1734	-.1822	-.1838	-.1895	-.1965	-.1684	-.2145	-.2167	-.2138	-.2201	-.2190	-.2223	-.2083

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0111		
70.000							-.0260	-.0483	.0000
80.000							-.0527	-.0955	-.1054
90.000	.0000	.0000	.0000	.0423	-.0254	.0000	-.0614	-.1221	-.1153
100.000	.0000	.0000	-.0661	-.0237	.0256	.0104			
110.000	.0000	-.0716	-.0496	.0372	.0715	-.0071			
120.000						-.0358			
130.000						.0376			
140.000						.2699			
150.000						.1749			
160.000						.1086			
170.000						.0774			
180.000	-.0594	.0000	-.0353	.0649	.1051	.2564			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (IG) = 1.501 ALPHA (7) = 4.319

SECTION (1)OR 1, FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.1245	.0886	-.0955												
70.000	.0999	.1138	-.0140												
80.000	.0863	.1293	.0584												
90.000			.1600	-.0806	-.2759	-.3349	-.3450	.0000	-.3755	-.3944	-.3928	-.3816	-.3451	-.3274	-.2717
100.000						-.3345	-.3509	-.3616	-.3755	-.3893	-.3854	-.3583	-.3341	-.3308	-.2969
110.000						-.3799	-.3818	-.3834	-.3840	-.3766	-.3452	-.3297	-.3288	-.3350	-.3259
120.000						-.3372								-.3023	
130.000						-.3641								-.2775	
140.000						-.3575								-.2775	
150.000						-.3226								-.2518	
160.000						-.2858								-.2511	
170.000						-.2827								-.2162	
180.000						-.3075	-.2912	-.2710	-.2549	-.2394	-.2262	-.2163	-.2054	-.2027	-.1992

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1979	-.1574	-.1318	-.1114	-.0896	-.0705	-.0526	.0000	-.0119	.0013	.0088	-.0068	-.0298	-.0411	-.0606
100.000	-.2490	-.1817	-.1475	-.1196	-.0978	-.0772	-.0617	-.0417	-.0178	-.0083	.0057	-.0028	-.0168	-.0252	-.0465
110.000	-.3160	-.2726	-.2200	-.1607	-.1592	-.1347	-.1212	-.0889	-.0678	-.0491	-.0298	-.0235	-.0217	-.0309	-.0469
120.000						-.1957								-.0741	
130.000						-.2942								-.0791	
140.000						-.2714								-.0774	
150.000						-.2445								-.0949	
160.000						-.2340								-.1412	
170.000						-.2223								-.2223	
180.000	-.1992	-.2038	-.1921	-.2048	-.2065	-.2143	-.2177	-.1375	-.2358	-.2384	-.2322	-.2392	-.2403	-.2416	-.1682

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0025		
70.000							-.0427	-.0589	.0000
80.000							-.0697	-.1084	-.1169
90.000	.0000	.0000	.0000	.0325	-.0174	.0000	-.0792	-.1350	-.1224
100.000	.0000	.0000	-.0775	-.0359	.0224	-.0066			
110.000	.0000	-.0833	-.0717	.0631	.1414	.0153			
120.000						-.0052			
130.000						.0980			
140.000						.1971			
150.000						.1379			
160.000						.0938			
170.000						.1189			
180.000	-.0498	.0000	-.0410	.0686	.0926	.2002			

DATE 24 MAR 74 TABULATED SOURCE DATA - 1A29/0A63

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (IS) = 1.500 ALPHA (B) = 6.413

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0948	.0387	-.1192												
70.000	.0751	.0654	-.0478												
80.000	.0879	.1014	.0102												
90.000			.0802	-.0755	-.2633	-.3428	-.3520	.0000	-.3828	-.4025	-.3992	-.3950	-.3556	-.3287	-.2192
100.000						-.3401	-.3586	-.3682	-.3828	-.3970	-.4010	-.3775	-.3466	-.3388	-.2650
110.000						-.3775	-.3834	-.3874	-.3905	-.3953	-.3632	-.3399	-.3364	-.3406	-.3267
120.000						-.3456								-.3090	
130.000						-.3408								-.2848	
140.000						-.3601								-.2840	
150.000						-.3450								-.2672	
160.000						-.3111								-.2477	
170.000						-.3111								-.2349	
180.000						-.3771	-.3235	-.2977	-.2765	-.2613	-.2448	-.2373	-.2273	-.2249	-.2192

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1725	-.1429	-.1190	-.0965	-.0750	-.0554	-.0419	.0000	-.0062	.0040	.0087	-.0110	-.0370	-.0485	-.0705
100.000	-.1972	-.1543	-.1267	-.1013	-.0841	-.0618	-.0477	-.0332	-.0125	-.0079	.0086	-.0056	-.0231	-.0279	-.0534
110.000	-.2750	-.2052	-.1712	-.1214	-.1064	-.0859	-.0647	-.0449	-.0230	-.0101	-.0010	.0003	-.0079	-.0194	-.0386
120.000						-.1480								-.0918	
130.000						-.2143								-.0850	
140.000						-.2732								-.0857	
150.000						-.2555								-.0926	
160.000						-.2464								-.1048	
170.000						-.2414								-.1330	
180.000	-.2186	-.2197	-.2122	-.2228	-.2248	-.2127	-.2403	-.1762	-.2577	-.2590	-.2546	-.2581	-.2303	-.1999	-.0916

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.00							-.0154		
70.000							-.0658	-.0700	.0000
80.000							-.0876	-.1239	-.1299
90.000	.0000	.0000	.00)	.0118	-.0254	.0000	-.0966	-.1517	-.1419
100.000	.0000	.0000	-.0888	-.0534	.0260	-.0337			
110.000	.0000	-.0899	-.0902	.0701	.1150	-.0437			
120.000						.0586			
130.000						.1345			
140.000						.2103			
150.000						.1119			
160.000						.0923			
170.000						.1434			
180.000	-.0578	.0000	-.0682	.0439	.0696	.0934			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB026)

MACH (18) = 1.900 ALPHA (9) = 8.828

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.0730	.0384	-.1389												
70.000	.0333	.0642	-.0708												
80.000	.0498	.0807	-.0268												
90.000			.0308	-.0664	-.2763	-.3486	-.3596	.0000	-.3895	-.4071	-.4056	-.4040	-.3548	-.2900	-.1989
100.000						-.3477	-.3638	-.3737	-.3895	-.4032	-.4108	-.3994	-.3619	-.3413	-.2082
110.000						-.3786	-.3649	-.3913	-.3968	-.4088	-.3873	-.3564	-.3166	-.3477	-.2659
120.000						-.3497								-.3165	
130.000						-.3911								-.2938	
140.000						-.3989								-.2938	
150.300						-.3637								-.2825	
160.000						-.3338								-.2650	
170.000						-.3332								-.2535	
180.000						-.3567	-.3473	-.3225	-.2999	-.2839	-.2681	-.2590	-.2476	-.2465	-.2380

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5380	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1987	-.1272	-.1025	-.0823	-.0635	-.0534	-.0413	.0000	-.0092	.0011	.0050	-.0191	-.0491	-.0633	-.0873
100.000	-.1672	-.1190	-.1159	-.0916	-.0728	-.0611	-.0513	-.0365	-.0139	-.0181	.0053	-.0115	-.0322	-.0392	-.0691
110.000	-.1869	-.1531	-.1257	-.0967	-.0775	-.0567	-.0452	-.0324	-.0187	-.0085	-.0009	-.0039	-.0150	-.0294	-.0496
120.000						-.1093								-.0763	
130.000						-.1391								-.0861	
140.000						-.1883								-.0976	
150.000						-.2463								-.0978	
160.000						-.2568								-.1020	
170.000						-.2565								-.1054	
180.000	-.2321	-.2345	-.2285	-.2391	-.2436	-.2565	-.2594	-.2052	-.2754	-.2641	-.2206	-.1713	-.1332	-.1191	-.0873

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0301		
70.000							-.0730	-.0838	.0000
80.000							-.1098	-.1366	-.1410
90.000	.0000	.0000	.0000	-.0138	-.0452	.0000	-.1019	-.1639	-.1650
100.000	.0000	.0000	-.1084	-.0861	.0207	-.0367			
110.000	.0000	-.1089	-.1052	.0842	.0774	-.0533			
120.000						.0648			
130.000						.1985			
140.000						.2224			
150.000						.0755			
160.000						.0000			
170.000						.1811			
180.000	-.0856	.0000	-.0747	.0723	.0185	.2405			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027) (17 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -8.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 2.250

MACH (1) = 1.751 ALPHA (1) = -8.355

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5817	.5290	.3811												
70.000	.6174	.5432	.4332												
80.000	.6025	.5573	.4833												
90.000			.5506	.3356	.1176	.0543	.0370	.0000	.0215	-.0007	-.0001	.0045	.0477	.0316	.0741
100.000						.0546	.0419	.0238	.0085	-.0073	-.0133	-.0168	.0143	.0272	.0741
110.000						.0336	.0215	.0088	-.0064	-.0352	-.0332	-.0109	.0020	-.0796	.0655
120.000						.1084								-.1144	
130.000						-.0182								-.0012	
140.000						-.1140								-.0032	
150.000						-.0930								-.0092	
160.000						-.0682								-.0123	
170.000						-.0763								-.0209	
180.000						-.0841	-.0714	-.0611	-.0432	-.0306	-.0231	-.0289	-.0246	-.0215	-.0080

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0914	.0862	.0879	.0905	.0902	.0842	.0870	.0922	.1046	.1215	.1526	.1549	.1376	.1256	.0000
100.000	.0862	.0773	.0819	.0893	.0934	.0856	.0859	.0879	.1003	.0965	.1316	.1448	.1420	.1351	.1063
110.000	.0787	.0836	.0882	.0911	.0882	.0890	.0919	.0931	.0965	.0957	.1031	.1172	.1336	.1270	.1075
120.000						.0957								.0818	
130.000						.0778								.0600	
140.000						.0652								.0338	
150.000						.0658								.0157	
160.000						.0548								.0010	
170.000						.0359								-.0223	
180.000	-.0029	.0059	.0120	.0151	.0134	.0103	.0010	.0307	-.0115	-.0182	-.0241	-.0171	-.0322	-.0345	-.0198

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
60.000							.1994		
70.000							.1839	.1718	.0000
80.000							.1721	.1342	.1135
90.000	.0715	-.0322	.0818	.1037	.1748	.0000	.1641	.1158	.0956
100.000	.0977	.0628	.0816	.1725	.2562	.2262			
110.000	.1086	.0888	.0980	.2729	.3346	.2650			
120.000						.4363			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REBGP7)

MACH (1) = 1.751 ALPHA (1) = -8.355

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.5453			
140.000						.2607			
150.000						.1373			
160.000						.2794			
170.000						.4979			
180.000	.1055	.0991	-.0440	.1483	.2909	.3578			

MACH (1) = 1.752 ALPHA (2) = -6.258

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5503	.5007	.3512												
70.000	.5771	.5134	.3961												
80.000	.5526	.5212	.4344												
90.000			.4990	.3215	.0881	.0446	.0279	.0000	.0138	-.0089	-.0127	-.0201	.0112	-.0028	.0417
100.000						.0441	.0362	.0149	.0003	-.0144	-.0239	-.0348	-.0240	-.0149	.0354
110.000						.0322	.0175	.0020	-.0167	-.0460	-.0483	-.0392	-.0283	-.0489	.0224
120.000						.0930								-.0792	
130.000						-.0348								-.0355	
140.000						-.1436								-.0435	
150.000						-.1255								-.0486	
160.000						-.1013								-.0481	
170.000						-.1074								-.0478	
180.000						-.1160	-.1052	-.0955	-.0791	-.0659	-.0546	-.0586	-.0546	-.0475	-.0252

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0650	.0636	.0641	.0659	.0653	.0584	.0590	.0000	.0774	.0909	.1205	.1216	.1073	.0937	.0000
100.000	.0555	.0555	.0607	.0641	.0673	.0604	.0587	.0587	.0719	.0673	.0981	.1139	.1107	.1058	.0736
110.000	.0440	.0572	.0679	.0627	.0664	.0604	.0604	.0636	.0645	.0645	.0713	.0874	.0998	.0963	.0733
120.000						.0552								.0437	
130.000						.0426								.0267	
140.000						.0325								.0016	
150.000						.0348								-.0135	
160.000						.0190								-.0327	
170.000						.0002								-.0545	
180.000	-.0194	-.0197	-.0074	-.0111	-.0194	-.0251	-.0310	-.0103	-.0440	-.0528	-.0553	-.0507	-.0638	-.0655	-.0503

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (2) = -6.258

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1512		
70.000							.1472	.1371	.0000
80.000							.1386	.0995	.0822
90.000	.0578	-.0544	.0483	.0552	.1303	.0000	.1411	.0839	.0601
100.000	.0684	.0296	.0483	.1093	.2160	.2007			
110.000	.0782	.0590	.0610	.2206	.2987	.2461			
120.000						.4188			
130.000						.5016			
140.000						.1978			
150.000						.0785			
160.000						.2303			
170.000						.4243			
180.000	.0733	.0656	-.0728	.1099	.2305	.2958			

MACH (1) = 1.752 ALPHA (3) = -4.152

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5216	.4727	.3276												
70.000	.5455	.4808	.3621												
80.000	.5072	.4831	.3932												
90.000			.4445	.3097	.0921	.0334	.0170	.0090	.0046	-.0173	-.0181	-.0250	-.0140	-.0257	.0095
100.000						.0291	.0273	.0066	-.0063	-.0227	-.0319	-.0437	-.0372	-.0415	.0040
110.000						.0308	.0124	-.0058	-.0247	-.0552	-.0598	-.0572	-.0503	-.0457	-.0180
120.000						.0757								-.0618	
130.000						-.0523								-.0661	
140.000						-.1697								-.0744	
150.000						-.1530								-.0829	
160.000						-.1314								-.0789	
170.000						-.1320								-.0718	
180.000						-.1418	-.1338	-.1277	-.1099	-.0949	-.0877	-.0844	-.0746	-.0704	-.0526

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0348	.0403	.0431	.0466	.0437	.0362	.0348	.0000	.0474	.0630	.0877	.0970	.0854	.0739	.0000
100.000	.0221	.0279	.0365	.0406	.0463	.0345	.0310	.0325	.0440	.0380	.0670	.0834	.0846	.0814	.0489
110.000	.0080	.0253	.0400	.0371	.0406	.0319	.0333	.0325	.0331	.0354	.0437	.0570	.0713	.0682	.0454
120.000						.0198								.0086	
130.000						.0106								-.0062	
140.000						.0019								-.0277	
150.000						.0013								-.0461	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (3) = -4.152

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
160.000						-.0126								-.0609	
170.000						-.0277								-.0801	
180.000	-.0389	-.0406	-.0372	-.0400	-.0463	-.0530	-.0600	-.0318	-.0699	-.0786	-.0804	-.0752	-.0888	-.0909	-.0740

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1139		
70.000							.1012	.1055	.0000
80.000							.1110	.0756	.0532
90.000	.0408	-.0829	.0190	.0213	.0782	.0000	.1237	.0587	.0359
100.000	.0408	.0020	.0175	.0457	.1780	.1881			
110.000	.0460	.0325	.0302	.1639	.2729	.2419			
120.000						.4027			
130.000						.4516			
140.000						.1389			
150.000						.0241			
160.000						.1766			
170.000						.3515			
180.000	.0338	.0325	-.0956	.0759	.1841	.2321			

MACH (1) = 1.752 ALPHA (4) = -2.022

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4938	.4373	.2986												
70.000	.5018	.4411	.3314												
80.000	.4566	.4379	.3564												
90.000			.3936	.3003	.0645	.0187	.0034	.0000	.0055	-.0181	-.0190	-.0293	-.0297	-.0512	-.0340
100.000						.0175	.0155	-.0020	-.0132	-.0227	-.0319	-.0474	-.0630	-.0598	-.0495
110.000						.0219	.0069	-.0132	-.0342	-.0598	-.0644	-.0635	-.0638	-.0520	-.0592
120.000						.0630								-.0560	
130.000						-.0670								-.0955	
140.000						-.1916								-.1015	
150.000						-.1818								-.1110	
160.000						-.1611								-.1067	
170.000						-.1579								-.0950	
180.000						-.1665	-.1601	-.1555	-.1414	-.1250	-.1104	-.1073	-.0947	-.0812	-.0635

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (4) = -2.022

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0038	.0155	.0221	.0302	.0319	.0233	.0247	.0000	.0282	.0360	.0641	.0756	.0653	.0567	.0000
100.000	-.0208	-.0051	.0124	.0279	.0316	.0210	.0196	.0170	.0267	.0144	.0417	.0572	.0661	.0618	.0256
110.000	-.0472	-.0211	.0106	.0124	.0175	.0121	.0126	.0121	.0106	.0089	.0135	.0250	.0428	.0417	.0207
120.000						-.0191								-.0277	
130.000						-.0240								-.0423	
140.000						-.0310								-.0609	
150.000						-.0295								-.0728	
160.000						-.0458								-.0879	
170.000						-.0627								-.1059	
180.000	-.0612	-.0600	-.0597	-.0675	-.0766	-.0845	-.0891	-.0688	-.0976	-.1040	-.1054	-.1010	-.1106	-.1153	-.0924

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0701		
70.000							.0635	.0782	.0000
80.000							.0802	.0457	.0276
90.000	.0164	-.1025	-.0052	-.0078	.0135	.0000	.1018	.0371	.0089
100.000	.0141	-.0153	-.0035	.0037	.1360	.1664			
110.000	.0270	.0063	.0005	.0923	.2487	.2406			
120.000						.4200			
130.000						.4122			
140.000						.0739			
150.000						-.0332			
160.000						.1202			
170.000						.2929			
180.000	.0141	.0075	-.1005	.0552	.1365	.1676			

MACH (1) = 1.752 ALPHA (5) = 049

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4615	.3974	.2707												
70.000	.4552	.4002	.2969												
80.000	.4115	.3919	.3159												
90.000			.3493	.2661	.0748	.0198	.0055	.0000	.0014	-.0256	-.0296	-.0402	-.0417	-.0686	-.0663
100.000						.0187	.0167	.0029	-.0086	-.0264	-.0408	-.0592	-.0631	-.0783	-.0731
110.000						.0250	.0106	-.0109	-.0313	-.0627	-.0739	-.0783	-.0837	-.0611	-.0854
120.000						.0489								-.0577	
130.000						-.0834								-.1232	
140.000						-.2101								-.1217	
150.000						-.2061								-.1246	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (5) = .049

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
160.000						-.1865								-.1183	
170.000						-.1794								-.1032	
180.000						-.1897	-.1837	-.1794	-.1641	-.1480	-.1288	-.1195	-.0994	-.0937	-.0834
X/L	.4500	.4680	.4860	.5050	.5240	.5460	.3610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0543	-.0363	-.0020	.0161	.0239	.0204	.0293	.0000	.0259	.0299	.0569	.0604	.0443	.0354	.0000
100.000	-.0677	-.0689	-.0309	.0072	.0175	.0175	.0155	.0126	.0216	.0075	.0299	.0417	.0440	.0420	.0083
110.000	-.0861	-.0778	-.0497	-.0134	.0018	.0018	.0031	.0005	.0002	-.0068	-.0056	.0098	.0230	.0201	-.0018
120.000						-.0586								-.0684	
130.000						-.0646								-.0761	
140.000						-.0734								-.0917	
150.000						-.0757								-.0993	
160.000						-.0870								-.1106	
170.000						-.1007								-.1286	
180.000	-.0792	-.0895	-.0881	-.0929	-.1029	-.1158	-.1199	-.0931	-.1234	-.1277	-.1284	-.1257	-.1330	-.1359	-.1089
X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400						
PHI															
60.000							.0253								
70.000							.0241	.0460	.0000						
80.000							.0503	.0184	.0014						
90.000	-.0061	-.1195	-.0298	-.0399	-.0260	.0000	.0782	.0124	-.0148						
100.000	-.0075	-.0405	-.0312	-.0301	.0845	.1383									
110.000	.0011	-.0136	-.0266	.0399	.2128	.2171									
120.000						.4098									
130.000						.4060									
140.000						.0348									
150.000						-.0965									
160.000						.0725									
170.000						.2283									
180.000	.0000	-.0133	-.0875	.0307	.0969	.1185									

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (6) = 2.139

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4358	.3635	.2677												
70.000	.4136	.3615	.2818												
80.000	.3644	.3483	.2956												
90.000			.3134	.2570	.0575	.0043	-.0147	.0000	-.0170	-.0429	-.0432	-.0547	-.0569	-.0789	-.0752
100.000						.0034	.0023	-.0133	-.0222	-.0412	-.0529	-.0734	-.0752	-.0895	-.0861
110.000						.0250	.0063	-.0228	-.0412	-.0734	-.0889	-.0941	-.1030	-.0738	-.0993
120.000						.0388								-.0658	
130.000						-.0918								-.1570	
140.000						-.2283								-.1507	
150.000						-.2306								-.1499	
160.000						-.2140								-.1333	
170.000						-.2019								-.1187	
180.000						-.2105	-.2039	-.1979	-.1809	-.1530	-.1332	-.1241	-.1107	-.1078	-.1087

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0621	-.0478	-.0155	.0011	.0057	.0040	.0083	.0000	.0118	.0172	.0405	.0419	.0253	.0140	.0000
100.000	-.0772	-.0744	-.0435	-.0149	-.0003	-.0037	-.0059	-.0048	.0028	-.0109	.0143	.0218	.0215	.0166	-.0177
110.000	-.1004	-.0884	-.0695	-.0438	-.0232	-.0259	-.0240	-.0246	-.0243	-.0292	-.0280	-.0170	-.0036	-.0132	-.0315
120.000						-.1102								-.1059	
130.000						-.1159								-.1083	
140.000						-.1130								-.1202	
150.000						-.1100								-.1298	
160.000						-.1220								-.1409	
170.000						-.1281								-.1536	
180.000	-.1104	-.1216	-.1199	-.1279	-.1333	-.1438	-.1458	-.1115	-.1499	-.1502	-.1490	-.1461	-.1528	-.1571	-.1326

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0246		
70.000							-.0148	.0218	.0000
80.000							.0235	-.0050	-.0229
90.000	-.0255	-.1421	-.0564	-.0650	-.0624	.0000	.0563	-.0084	-.0370
100.000	-.0258	-.0656	-.0558	-.0613	.0132	.1135			
110.000	-.0191	-.0382	-.0549	-.0185	.1728	.2073			
120.000						.3667			
130.000						.3571			
140.000						-.0128			
150.000						-.1283			
160.000						.0543			
170.000						.1495			
180.000	-.0336	-.0422	-.0731	.0106	.0567	.1101			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (7) = 4.212

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4176	.3465	.2573												
70.000	.3758	.3396	.2751												
80.000	.3209	.3120	.2875												
90.000			.3019	.2296	.0835	-.0156	-.0371	.0000	-.0403	-.0575	-.0592	-.0656	-.0615	-.0872	-.0658
100.000						-.0173	-.0156	-.0291	-.0409	-.0558	-.0681	-.0814	-.0844	-.0938	-.0787
110.000						.0146	-.0061	-.0351	-.0549	-.0854	-.0989	-.1047	-.1093	-.0827	-.1018
120.000						.0276								-.0732	
130.000						-.0998								-.1914	
140.000						-.2424								-.1802	
150.000						-.2493								-.1731	
160.000						-.2344								-.1725	
170.000						-.2163								-.1450	
180.000						-.2223	-.2156	-.2032	-.1799	-.1618	-.1503	-.1413	-.1353	-.1344	-.1379

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0398	-.0243	-.0149	-.0120	-.0063	-.0143	-.0109	.0000	-.0100	-.0054	.0198	.0206	.0057	-.0030	.0000
100.000	-.0632	-.0563	-.0386	-.0260	-.0243	-.0317	-.0307	-.0344	-.0234	-.0347	-.0074	.0025	.0034	-.0004	-.0359
110.000	-.0989	-.0852	-.0620	-.0555	-.0558	-.0612	-.0583	-.0586	-.0536	-.0545	-.0513	-.0420	-.0240	-.0321	-.0540
120.000						-.1521								-.1623	
130.000						-.1623								-.1379	
140.000						-.1487								-.1451	
150.000						-.1397								-.1556	
160.000						-.1443								-.1608	
170.000						-.1493								-.1768	
180.000	-.1401	-.1489	-.1458	-.1515	-.1550	-.1623	-.1641	-.1368	-.1664	-.1693	-.1693	-.1707	-.1757	-.1797	-.1582

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0592		
70.000							-.0471	-.0004	.0000
80.000							-.0012	-.0217	-.0387
90.000	-.0887	-.1539	-.0646	-.0838	-.0661	.0000	.0384	-.0255	-.0537
100.000	-.0445	-.0828	-.0734	-.0864	-.0801	.0907			
110.000	-.0364	-.0810	-.0832	-.0876	.1307	.2019			
120.000						.3731			
130.000						.3211			
140.000						-.0584			
150.000						-.1625			
160.000						.0465			
170.000						.0838			
180.000	-.0566	-.0833	-.0437	.0117	.0318	.0881			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (I) = 1.752 ALPHA (8) = 6.358

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4056	.3446	.2292												
70.000	.3400	.3305	.2514												
80.000	.2732	.2931	.2626												
90.000			.2744	.1956	.0043	-.0383	-.0578	.0000	-.0558	-.0659	-.0590	-.0575	-.0483	-.0901	-.0400
100.000						-.0409	-.0360	-.0443	-.0506	-.0595	-.0638	-.0771	-.0741	-.0884	-.0666
110.000						-.0044	-.0207	-.0429	-.0584	-.0880	-.0975	-.1038	-.1061	-.0855	-.1004
120.000						.0166								-.0786	
130.000						-.1110								-.2382	
140.000						-.2567								-.2273	
150.000						-.2650								-.2110	
160.000						-.2469								-.2119	
170.000						-.2274								-.1810	
180.000						-.2294	-.2225	-.2170	-.2024	-.1883	-.1808	-.1741	-.1678	-.1676	-.1664

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0135	-.0074	-.0049	-.0069	-.0112	-.0263	-.0263	.0000	-.0292	-.0245	-.0030	.0019	-.0167	-.0222	.0000
100.000	-.0418	-.0429	-.0340	-.0246	-.0283	-.0432	-.0472	-.0542	-.0455	-.0600	-.0359	-.0243	-.0205	-.0260	-.0546
110.000	-.0906	-.0720	-.0638	-.0629	-.0663	-.0780	-.0797	-.0855	-.0850	-.0879	-.0856	-.0696	-.0524	-.0594	-.0791
120.000						-.2207								-.2451	
130.000						-.1965								-.1876	
140.000						-.1904								-.1751	
150.000						-.1657								-.1791	
160.000						-.1622								-.1861	
170.000						-.1681								-.2001	
180.000	-.1695	-.1729	-.1701	-.1729	-.1749	-.1794	-.1806	-.1291	-.1835	-.1861	-.1879	-.1864	-.1960	-.1995	-.1777

X/L	.7290	.7470	.7670	.7850	.8030	.8190	.8620	.9000	.9400
PHI									
60.000							-.0889		
70.000							-.0907	-.0281	.0000
80.000							-.0330	-.0474	-.0589
90.000	-.0360	-.1699	-.0875	-.1007	-.1025	.0000	.0094	-.0485	-.0751
100.000	-.0349	-.0993	-.0895	-.1030	-.1007	.0586			
110.000	-.0326	-.0722	-.1018	-.1025	.0380	.1936			
120.000						.3367			
130.000						.2643			
140.000						-.1063			
150.000						-.1025			
160.000						.0451			
170.000						.0390			
180.000	-.0745	-.0820	-.0194	.0057	.0353	.0856			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (1) = 1.752 ALPHA (9) = 8.458

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3731	.3234	.1942												
70.000	.3231	.3067	.2172												
80.000	.2411	.2690	.2244												
90.000			.2284	.1280	-.0245	-.0570	-.0859	.0000	-.0607	-.0630	-.0550	-.0515	-.0383	-.0889	-.0037
100.000						-.0549	-.0432	-.0509	-.0518	-.0613	-.0659	-.0785	-.0726	-.0823	-.0369
110.000						-.0113	-.0239	-.0446	-.0590	-.0886	-.1030	-.1052	-.1101	-.0823	-.0883
120.000						.0161								-.0823	
130.000						-.1058								-.2653	
140.000						-.2714								-.2647	
150.000						-.2869								-.2464	
160.000						-.2694								-.2396	
170.000						-.2472								-.2107	
180.000						-.2461	-.2441	-.2404	-.2320	-.2179	-.2108	-.2034	.1964	-.1927	-.1907

X/L	.4500	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0175	.0120	.0046	-.0009	-.0094	-.0260	-.0266	.0000	-.0330	-.0292	-.0057	.0042	-.0144	-.0190	.0000
100.000	-.0123	-.0217	-.0243	-.0220	-.0266	-.0455	-.0490	-.0577	-.0504	-.0655	-.0394	-.0225	-.0219	-.0214	-.0587
110.000	-.0898	-.0555	-.0529	-.0603	-.0861	-.0844	-.0876	-.0920	-.0955	-.0960	-.0929	-.0748	-.0548	-.0626	-.0858
120.000						-.2794								-.3004	
130.000						-.2600								-.2739	
140.000						-.2303								-.2129	
150.000						-.1972								-.2007	
160.000						-.1789								-.2039	
170.000						-.1798								-.2135	
180.000	-.1913	-.1933	-.1896	-.1859	-.1867	-.1868	-.1896	-.1594	-.1952	-.1995	-.2010	-.2007	-.2074	-.2065	-.1651

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1037		
70.000							-.1247	-.0540	.0000
80.000							-.0636	-.0702	-.0803
90.000	-.0555	-.1415	-.0907	-.1103	-.1161	.0000	-.0151	-.0702	-.0985
100.000	-.0535	-.0941	-.0953	-.1148	-.1175	.0252			
110.000	-.0483	-.0765	-.1149	-.1233	-.0266	.1738			
120.000						.2709			
130.000						.1620			
140.000						-.1542			
150.000						-.0252			
160.000						-.0076			
170.000						-.0745			
180.000	-.0719	-.0927	-.0385	-.0136	.0040	.0962			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.020 ALPHA (1) = -7.843

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.6022	.5579	.4135												
70.000	.6196	.5615	.4479												
80.000	.5366	.5678	.4786												
90.000			.5211	.3918	.2177	.1192	.0996	.0000	.0778	.0537	.0516	.0411	.0408	.0283	.0291
100.000						.1173	.1087	.0905	.0679	.0489	.0387	.0257	.0309	.0218	.0321
110.000						.1017	.0867	.0703	.0579	.0239	.0173	.0188	.0278	.2037	.0345
120.000						.1716								.3751	
130.000						.0486								.0263	
140.000						-.0558								.0164	
150.000						-.0432								.0065	
160.000						-.0221								.0035	
170.000						-.0300								.0022	
180.000						-.0489	-.0327	-.0246	-.0149	-.0077	.0010	-.0026	-.0020	-.0029	.0022

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0402	.0459	.0721	.0959	.1079	.1031	.1026	.1002	.1014	.1044	.1209	.1284	.1260	.1170	.0000
100.000	.0369	.0323	.0495	.0787	.0971	.0992	.0969	.0948	.1006	.0897	.1059	.1146	.1266	.1251	.1040
110.000	.0377	.0399	.0477	.0552	.0742	.0904	.0972	.0966	.0948	.0924	.0918	.0951	.1113	.1158	.1040
120.000						.0537								.0698	
130.000						.0347								.0587	
140.000						.0266								.0407	
150.000						.0278								.0265	
160.000						.0203								.0124	
170.000						.0095								-.0090	
180.000	.0004	-.0008	.0040	.0016	-.0020	-.0056	-.0084	-.0153	-.0160	-.0187	-.0181	-.0160	-.0193	-.02[illegible]	

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1442		
70.000							.1415	.1445	.0000
80.000							.1530	.1181	.1075
90.000	.0328	-.0204	.0637	.0561	.1163	.0000	.1677	.1126	.0662
100.000	.0754	.0420	.0606	.0823	.2003	.2268			
110.000	.0907	.0709	.0811	.1811	.2799	.2565			
120.000						.4403			
130.000						.5411			
140.000						.2679			
150.000						.1397			
160.000						.2089			
170.000						.3943			
180.000	.0893	.0811	-.0318	.0982	.2382	.3504			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.000 ALPHA (2) = -5.764

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5792	.5180	.3803												
70.000	.5861	.5231	.4096												
80.000	.5912	.5283	.4331												
90.000			.4773	.3583	.1875	.1001	.0832	.0000	.0864	.0414	.0384	.0257	.0212	-.0005	.0034
100.000						.0906	.0923	.0769	.0567	.0384	.0269	.0109	.0103	.0019	.0037
110.000						.0935	.0799	.0615	.0438	.0131	.0004	.0007	.0016	.1142	.0049
120.000						.1532								.2454	
130.000						.0272								-.0065	
140.000						-.0827								-.0149	
150.000						-.0748								-.0283	
160.000						-.0553								-.0319	
170.000						-.0565								-.0307	
180.000						-.0778	-.0628	-.0601	-.0513	-.0381	-.0300	-.0310	-.0348	-.0307	-.0265

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0127	.0182	.0332	.0561	.0736	.0742	.0767	.0755	.0758	.0788	.0911	.0989	.0956	.0869	.0000
100.000	.0085	.0049	.0161	.0386	.0621	.0706	.0707	.0683	.0743	.0623	.0776	.0854	.0941	.0941	.0729
110.000	.0082	.0115	.0182	.0224	.0347	.0537	.0641	.0653	.0665	.0605	.0629	.0668	.0773	.0827	.0702
120.000						.0112								.0346	
130.000						-.0005								.0250	
140.000						-.0065								.0082	
150.000						-.0056								-.0020	
160.000						-.0126								-.0163	
170.000						-.0214								-.0357	
180.000	-.0272	-.0292	-.0257	-.0275	-.0295	-.0348	-.0384	-.0424	-.0436	-.0454	-.0457	-.0436	-.0457	-.0466	-.0310

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1067		
70.000							.1061	.1133	.0009
80.000							.1238	.0916	.0790
90.000	.0477	-.0422	.0374	.0257	.0627	.0000	.1440	.0889	.0618
100.000	.0477	.0135	.0380	.0461	.1575	.1970			
110.000	.0803	.0368	.0464	.1346	.2469	.2337			
120.000						.4179			
130.000						.4911			
140.000						.2105			
150.000						.0916			
160.000						.1747			
170.000						.3243			
180.000	.0830	.0477	-.0546	.0675	.2099	.2927			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.020 ALPHA (3) = -3.623

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1265	.1640	.2035	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
80.000	.3491	.4737	.3495												
70.000	.3468	.4823	.3712												
60.000	.3087	.4891	.3950												
50.000			.4314	.3134	.1456	.0844	.0866	.0000	.0328	.0278	.0233	.0103	.0082	-.0170	-.0125
100.000						.0847	.0760	.0618	.0440	.0272	.0130	-.0029	-.0053	-.0173	-.0152
110.000						.0671	.0693	.0482	.0311	.0016	-.0117	-.0140	-.0188	.0567	-.0197
120.000						.1365								.1540	
130.000						.0109								-.0370	
140.000						-.1019								-.0373	
150.000						-.0992								-.0535	
160.000						-.0829								-.0625	
170.000						-.0820								-.0580	
180.000						-.1003	-.0896	-.0899	-.0848	-.0715	-.0586	-.0580	-.0592	-.0580	-.0526

X/L	.4510	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0047	-.0063	.0037	.0208	.0404	.0467	.0518	.0539	.0551	.0575	.0689	.0740	.0716	.0638	.0000
100.000	-.0125	-.0182	-.0104	.0049	.0226	.0362	.0440	.0464	.0509	.0412	.0526	.0572	.0665	.0692	.0497
110.000	-.0215	-.0179	-.0089	-.0045	.0022	.0169	.0337	.0394	.0354	.0361	.0346	.0376	.0481	.0523	.0413
120.000						-.0263								.0001	
130.000						-.0451								-.0093	
140.000						-.0397								-.0218	
150.000						-.0581								-.0315	
160.000						-.0435								-.0455	
170.000						-.0497								-.0607	
180.000	-.0333	-.0371	-.0339	-.0362	-.0386	-.0609	-.0652	-.0512	-.0679	-.0703	-.0713	-.0676	-.0695	-.0679	-.0476

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0699		
70.000							.0753	.0852	.0000
60.000							.1021	.0702	.0512
90.000	.0280	-.0812	.0142	.0007	.0215	.0000	.1234	.0693	.0401
100.000	.0280	-.0059	.0154	.0137	.1151	.1716			
110.000	.0383	.0182	.0188	.0907	.2173	.2152			
120.000						.3976			
130.000						.4382			
140.000						.1499			
150.000						.0320			
160.000						.1427			
170.000						.2591			
180.000	.0398	.0168	-.0097	.0452	.1607	.2330			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.019 ALPHA (4) = -1.540

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5211	.4395	.3160												
70.000	.5087	.4452	.3362												
80.000	.4654	.4452	.3521												
90.000			.3883	.3037	.1098	.0652	.0489	.0000	.0363	.0134	.0095	-.0023	-.0059	-.0358	-.0271
100.000						.0652	.0624	.0462	.0311	.0128	-.0020	-.0164	-.0208	-.0322	-.0319
110.000						.0730	.0567	.0369	.0191	-.0107	-.0245	-.0295	-.0352	.0173	-.0412
120.000						.1179								.0859	
130.000						-.0071								-.0771	
140.000						-.1238								-.0765	
150.000						-.1259								-.0765	
160.000						-.1105								-.0930	
170.000						-.1063								-.0879	
180.000						-.1232	-.1144	-.1144	-.1096	-.1018	-.0927	-.0879	-.0855	-.0840	-.0789

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0205	-.0214	-.0103	-.0005	.0176	.0242	.0299	.0308	.0326	.0368	.0482	.0521	.0503	.0452	.0000
100.000	-.0316	-.0373	-.0310	-.0145	.0001	.0128	.0209	.0233	.0290	.0194	.0311	.0350	.0446	.0461	.0272
110.000	-.0435	-.0421	-.0385	-.0301	-.0211	-.0068	.0094	.0118	.0127	.0100	.0082	.0133	.0218	.0233	.0149
120.000						-.0555								-.0396	
130.000						-.0657								-.0432	
140.000						-.0702								-.0526	
150.000						-.0669								-.0602	
160.000						-.0690								-.0696	
170.000						-.0760								-.0821	
180.000	-.0791	-.0812	-.0788	-.0800	-.0833	-.0866	-.0860	-.0842	-.0912	-.0912	-.0891	-.0875	-.0857	-.0857	-.0609

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0308		
70.000							.0443	.0582	.0000
80.000							.0798	.0498	.0302
90.000	.0050	-.0781	-.0044	-.0195	-.0101	.0000	.1129	.0546	.0206
100.000	.0059	-.0216	-.0059	-.0098	.0570	.1595			
110.000	.0194	-.0080	-.0098	.0420	.1857	.2169			
120.000						.3805			
130.000						.3823			
140.000						.0879			
150.000						-.0161			
160.000						.1087			
170.000						.1986			
180.000	.0155	-.0074	-.0829	.0299	.1180	.1796			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.020 ALPHA (5) = .562

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4892	.4027	.2825												
70.000	.4683	.4097	.2985												
80.000	.4196	.3994	.3147												
90.000			.3431	.2457	.0986	.0447	.0281	.0000	.0197	-.0008	-.0029	-.0135	-.0167	-.0511	-.0362
100.000						.0435	.0495	.0329	.0173	.0010	-.0120	-.0279	-.0344	-.0455	-.0452
110.000						.0625	.0468	.0281	.0067	-.0228	-.0366	-.0452	-.0520	-.0077	-.0601
120.000						.0977								.0416	
130.000						-.0213								-.1098	
140.000						-.1402								-.1089	
150.000						-.1465								-.1086	
160.000						-.1351								-.1086	
170.000						-.1273								-.1152	
180.000						-.1426	-.1354	-.1348	-.1309	-.1252	-.1179	-.1146	-.1095	-.1059	-.1024

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0299	-.0227	-.0050	.0073	.0133	.0097	.0118	.0124	.0118	.0148	.0292	.0371	.0365	.0310	.0000
100.000	-.0437	-.0472	-.0356	-.0101	-.0005	-.0035	-.0005	-.0014	.0070	-.0029	.0112	.0172	.0283	.0317	.0130
110.000	-.0628	-.0601	-.0538	-.0413	-.0263	-.0221	-.0169	-.0163	-.0127	-.0142	-.0154	-.0102	.0001	.0034	-.0068
120.000						-.0787								-.0874	
130.000						-.0923								-.0804	
140.000						-.1008								-.0817	
150.000						-.0956								-.0865	
160.000						-.0965								-.0926	
170.000						-.0999								-.0990	
180.000	-.0991	-.1015	-.0976	-.1000	-.1012	-.1056	-.1062	-.1023	-.1047	-.1035	-.0990	-.0990	-.0969	-.0996	-.0788

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0014		
70.000							.0151	.0368	.0000
80.000							.0540	.0287	.0094
90.000	-.0050	-.0930	-.0196	-.0365	-.0317	.0000	.0907	.0374	.0037
100.000	-.0014	-.0386	-.0205	-.0277	-.0120	.1386			
110.000	.0055	-.0199	-.0295	-.0083	.1521	.2259			
120.000						.4147			
130.000						.3713			
140.000						.0218			
150.000						-.0580			
160.000						.0910			
170.000						.1341			
180.000	-.0017	-.0253	-.0879	.0109	.0811	.1563			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.010 ALPHA (6) = 2.636

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4629	.3678	.2490												
70.000	.4247	.3717	.2618												
80.000	.3770	.3548	.2766												
90.000			.2991	.2108	.0899	.0312	.0200	.0000	.0200	.0043	.0013	-.0090	-.0170	-.0632	-.0417
100.000						.0292	.0378	.0313	.0218	.0064	-.0072	-.0247	-.0329	-.0485	-.0529
110.000						.0493	.0393	.0203	.0031	-.0214	-.0351	-.0458	-.0567	-.0270	-.0712
120.000						.0745								.0049	
130.000						-.0392								-.1398	
140.000						-.1609								-.1395	
150.000						-.1698								-.1389	
160.000						-.1591								-.1380	
170.000						-.1493								-.1383	
180.000						-.1632	-.1546	-.1561	-.1522	-.1472	-.1395	-.1380	-.1327	-.1292	-.1248

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0417	-.0434	-.0417	-.0399	-.0367	-.0287	-.0172	-.0127	-.0067	-.0002	.0158	.0247	.0241	.0205	.0000
100.000	-.0535	-.0837	-.0808	-.0549	-.0499	-.0473	-.0387	-.0312	-.0178	-.0207	-.0013	.0052	.0182	.0217	.0072
110.000	-.0755	-.0761	-.0752	-.0752	-.0735	-.0735	-.0659	-.0575	-.0420	-.0384	-.0327	-.0246	-.0112	-.0046	-.0159
120.000						-.1335								-.1348	
130.000						-.1310								-.1190	
140.000						-.1352								-.1133	
150.000						-.1274								-.1121	
160.000						-.1202								-.1148	
170.000						-.1175								-.1196	
180.000	-.1194	-.1182	-.1147	-.1155	-.1153	-.1208	-.1223	-.1211	-.1232	-.1247	-.1217	-.1205	-.1208	-.1205	-.0967

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0280		
70.000							-.0159	.0117	.0000
80.000							.0288	.0075	-.0087
90.000	-.0382	-.1089	-.0308	-.0510	-.0483	.0000	.0667	.0158	-.0144
100.000	-.0213	-.0525	-.0317	-.0438	-.0418	.1093			
110.000	-.0098	-.0322	-.0438	-.0379	.1117	.2051			
120.000						.3846			
130.000						.3441			
140.000						.0010			
150.000						-.1047			
160.000						.0572			
170.000						.0818			
180.000	-.0120	-.0378	-.0938	-.0019	.0480	.1051			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.019 ALPHA (7) = 4.777

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4339	.3367	.2262												
70.000	.3838	.3373	.2365												
80.000	.3314	.3142	.2451												
90.000			.2602	.1927	.0567	.0232	.0096	.0000	-.0029	-.0108	-.0150	-.0242	-.0308	-.0771	-.0491
100.000						.0256	.0309	.0188	.0063	-.0064	-.0200	-.0375	-.0453	-.0571	-.0603
110.000						.0481	.0398	.0164	-.0020	-.0313	-.0484	-.0600	-.0686	-.0382	-.0827
120.000						.0599								-.0144	
130.000						-.0494								-.1678	
140.000						-.1743								-.1672	
150.000						-.1855								-.1543	
160.000						-.1766								-.1534	
170.000						-.1660								-.1581	
180.000						-.1769	-.1707	-.1698	-.1671	-.1630	-.1582	-.1566	-.1495	-.1460	-.1384

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0447	-.0435	-.0367	-.0241	-.0117	-.0087	-.0071	-.0068	-.0080	-.0050	.0081	.0158	.0146	.0069	.0000
100.000	-.0591	-.0647	-.0600	-.0464	-.0344	-.0270	-.0232	-.0235	-.0181	-.0283	-.0109	-.0067	.0016	.0078	-.0115
110.000	-.0859	-.0844	-.0809	-.0765	-.0685	-.0579	-.0489	-.0480	-.0456	-.0492	-.0480	-.0438	-.0304	-.0256	-.0356
120.000						-.1692								-.1846	
130.000						-.1627								-.1571	
140.000						-.1624								-.1529	
150.000						-.1529								-.1407	
160.000						-.1460								-.1359	
170.000						-.1403								-.1353	
180.000	-.1345	-.1357	-.1277	-.1312	-.1315	-.1352	-.1347	-.1275	-.1332	-.1341	-.1305	-.1311	-.1305	-.1332	-.1135

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0510		
70.000							-.0498	-.0097	.0000
80.000							.0010	-.0103	-.0269
90.000	-.0287	-.1259	-.0466	-.0650	-.0638	.0000	.0451	-.0026	-.0347
100.000	-.0278	-.0862	-.0463	-.0599	-.0650	.0815			
110.000	-.0222	-.0454	-.0635	-.0614	.0510	.1893			
120.000						.3549			
130.000						.2761			
140.000						-.0549			
150.000						-.1114			
160.000						.0353			
170.000						.0291			
180.000	-.0329	-.0528	-.0855	-.0154	.0176	.0866			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.018 ALPHA (8) = 6.874

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3360	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4087	.3144	.2097												
70.000	.3470	.3099	.2136												
80.000	.2883	.2747	.2192												
90.000			.2242	.1590	.0710	-.0017	-.0168	.0000	-.0278	-.0337	-.0337	-.0369	-.0379	-.0857	-.0474
100.000						-.0005	.0069	-.0052	-.0141	-.0278	-.0352	-.0485	-.0515	-.0595	-.0595
110.000						.0375	.0232	.0016	-.0159	-.0437	-.0597	-.0695	-.0783	-.0459	-.0857
120.000						.0455								-.0291	
130.000						-.0571								-.1971	
140.000						-.1868								-.1968	
150.000						-.2019								-.1818	
160.000						-.1954								-.1815	
170.000						-.1826								-.1815	
180.000						-.1906	-.1856	-.1865	-.1839	-.1794	-.1768	-.1729	-.1688	-.1653	-.1579

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0409	-.0294	-.0117	.0080	.0117	.0060	.0028	-.0008	-.0029	-.0044	.0075	.0122	.0087	.0004	.0000
100.000	-.0568	-.0633	-.0500	-.0203	-.0067	-.0094	-.0121	-.0187	-.0154	-.0268	-.0151	-.0109	-.0035	-.0005	-.0198
110.000	-.0866	-.0863	-.0798	-.0654	-.0444	-.0394	-.0388	-.0436	-.0456	-.0516	-.0531	-.0498	-.0370	-.0340	-.0457
120.000						-.1957								-.2335	
130.000						-.1946								-.2114	
140.000						-.1889								-.1908	
150.000						-.1803								-.1767	
160.000						-.1668								-.1578	
170.000						-.1551								-.1546	
180.000	-.1523	-.1544	-.1479	-.1470	-.1473	-.1494	-.1483	-.1333	-.1453	-.1438	-.1423	-.1447	-.1462	-.1474	-.1335

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0671		
70.000							-.0767	-.0323	.0000
80.000							-.0267	-.0314	-.0466
90.000	-.0404	-.1376	-.0570	-.0743	-.0731	.0000	.0229	-.0204	-.0552
100.000	-.0407	-.0737	-.0561	-.0722	-.0775	.0523			
110.000	-.0323	-.0558	-.0740	-.0764	-.0136	.1823			
120.000						.3080			
130.000						.2043			
140.000						-.1320			
150.000						-.0924			
160.000						-.0186			
170.000						-.0407			
180.000	-.0424	-.0671	-.1028	-.0329	-.0029	.0757			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB027)

MACH (2) = 2.019 ALPHA (9) = 8.929

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3866	.2905	.2015												
70.000	.3157	.2926	.1985												
80.000	.2513	.2472	.2009												
90.000			.1985	.1469	.0502	-.0257	-.0422	.0000	-.0470	-.0496	-.0461	-.0464	-.0450	-.0957	-.0494
100.000						-.0283	-.0182	-.0280	-.0372	-.0419	-.0458	-.0538	-.0577	-.0642	-.0653
110.000						.0194	.0031	-.0129	-.0325	-.0567	-.0686	-.0762	-.0848	-.0527	-.0913
120.000						.0280								-.0397	
130.000						-.0642								-.2183	
140.000						-.1936								-.2169	
150.000						-.2129								-.2121	
160.000						-.2102								-.2110	
170.000						-.1987								-.1956	
180.000						-.2031	-.1989	-.1995	-.1962	-.1906	-.1906	-.1844	-.1800	-.1759	-.1706

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0258	-.0037	.0099	.0185	.0161	.0069	.0043	.0004	-.0025	-.0023	.0093	.0152	.0096	.0004	.0000
100.000	-.0524	-.0423	-.0220	-.0025	.0007	-.0073	-.0124	-.0193	-.0148	-.0280	-.0139	-.0094	-.0028	-.0028	-.0237
110.000	-.0930	-.0797	-.0615	-.0432	-.0332	-.0403	-.0417	-.0474	-.0489	-.0543	-.0555	-.0507	-.0360	-.0348	-.0490
120.000						-.2173								-.2606	
130.000						-.2135								-.2450	
140.000						-.2177								-.2310	
150.000						-.2000								-.2038	
160.000						-.1865								-.1826	
170.000						-.1704								-.1718	
180.000	-.1670	-.1664	-.1611	-.1587	-.1572	-.1605	-.1590	-.1219	-.1551	-.1557	-.1527	-.1535	-.1589	-.1628	-.1475

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0748		
70.000							-.0870	-.0463	.0000
80.000							-.0409	-.0427	-.0573
90.000	-.0543	-.1442	-.0603	-.0763	-.0754	.0000	.0096	-.0314	-.0680
100.000	-.0436	-.0734	-.0509	-.0751	-.0811	.0371			
110.000	-.0371	-.0549	-.0766	-.0826	-.0370	.1775			
120.000						.2746			
130.000						.1414			
140.000						-.1501			
150.000						-.1051			
160.000						-.0629			
170.000						-.1197			
180.000	-.0484	-.0689	-.1234	-.0632	-.0329	.0434			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028) (19 OCT 73)

REFERENCE DATA

SREF = .0000 SQ.IN. XMRP = .0000 IN.
LREF = .0000 IN. YMRP = .0000 IN.
BREF = .0000 IN. ZMRP = .0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = -8.000 ELEVTR = .000
AILRON = .000 RUDDER = .000
RN/L = 3.500

MACH (1) = .601 ALPHA (1) = -8.497

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1951	.1060	-.0681												
70.000	.2715	.1514	.0034												
80.000	.3028	.1312	.0063												
90.000			-.0243	-.1801	-.2414	-.1214	-.0538	.0000	-.0218	-.0387	.0021	.0024	.0306	.0050	.0100
100.000						-.1262	-.0988	-.0592	-.0260	-.0113	.0261	.0037	.0082	-.0014	.0319
110.000						-.2343	-.1438	-.1154	-.0528	-.0138	.0021	.0127	.0236	-.5900	.0213
120.000						-.1159								-.8180	
130.000						-.2541								-.0303	
140.000						-.2666								-.0544	
150.000						-.2340								-.0608	
160.000						-.2302								-.1014	
170.000						-.2251								-.1218	
180.000						-.2219	-.1757	-.1875	-.1763	-.1444	-.1364	-.1345	-.1237	-.1186	-.1110

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0565	.0043	.0043	.0044	.0044	.0044	.0877	.0000	.0689	.0497	.0513	.0341	.0043	.0210	.0000
100.000	.0287	.0043	.0043	.0043	.0044	.0043	.0571	.0657	.0683	.0299	.0593	.0321	.0123	.0379	.0226
110.000	.0043	.0043	.0043	.0043	.0043	.0043	.0532	.0654	.0619	.0488	.0420	.0328	.0388	.0373	.0350
120.000						.0043								.0491	
130.000						-.0052								.0548	
140.000						-.0426								.0331	
150.000						-.0229								.0226	
160.000						-.0326								.0130	
170.000						-.0304								-.0276	
180.000	.0043	.0043	.0043	0043	.0043	-.0749	-.0956	-.0911	-.0756	-.0798	-.0244	-.0599	-.0409	-.0183	.0152

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0867		
70.000							.0596	.0398	.0000
80.000							.0497	.0008	-.0264
90.000	.0158	.0245	.0753	.0730	.0676	.0000	.0535	-.0191	-.0422
100.000	.0149	.0699	.0954	.1050	.0794	.0816			
110.000	.0867	.1203	.1574	.1858	.1615	.0267			
120.000						.0028			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .601 ALPHA (1) = -8.437

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
130.000						.1465			
140.000						.0606			
150.000						.1340			
160.000						.2579			
170.000						.4355			
180.000	.0786	.0692	.1079	.1837	.2499	-.0951			

MACH (1) = .601 ALPHA (2) = -8.459

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1899	.1103	-.0651												
70.000	.2663	.1318	-.0095												
80.000	.2778	.1340	.0071												
90.000			-.0012	-.1755	-.2649	-.1324	-.0671	.0000	-.0208	-.0380	-.0205	-.0061	.0074	-.0108	-.0085
100.000						-.1379	-.1172	-.0572	-.0339	-.0221	-.0135	-.0154	.0026	-.0238	.0119
110.000						-.2177	-.1405	-.1306	-.0565	-.0208	.0038	-.0028	-.0060	-.3397	-.0012
120.000						-.1442								-.5795	
130.000						-.3077								-.0546	
140.000						-.3096								-.0847	
150.000						-.2761								-.0952	
160.000						-.2413								-.1082	
170.000						-.2684								-.1314	
180.000						-.2480	-.2002	-.1877	-.1855	-.1686	-.1456	-.1521	-.1257	-.1390	-.1155

X/L	.4300	.4480	.4660	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0231	.0453	.0312	.0510	.0622	.0645	.0576	.0000	.0390	.0093	.0070	-.0036	-.0359	-.0227	.0000
100.000	.0112	.0079	.0156	.0389	.0507	.0376	.0301	.0253	.0438	-.0060	.0201	-.0091	-.0191	-.0017	-.0057
110.000	.0111	.0239	.0255	.0236	.0239	.0175	.0275	.0215	.0263	.0243	.0118	-.0175	.0035	.0041	.0103
120.000						-.0045								.0089	
130.000						-.0367								.0124	
140.000						-.0748								-.0078	
150.000						-.0393								.0035	
160.000						-.0557								-.0107	
170.000						-.0738								-.0430	
180.000	-.1091	-.1001	-.0959	-.0988	-.0972	-.0819	-.1048	-.0951	-.0964	-.0951	-.0817	-.0711	-.0527	-.0340	-.0092

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .801 ALPHA (2) = -6.459

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0772		
90.000							.0405	.0261	.0000
80.000							.0440	-.0216	-.0177
90.000	-.0256	.0093	.0444	.0492	.0508	.0000	.0498	-.0062	-.0373
100.000	.0278	.0591	.0815	.0965	.0789	.0523			
110.000	.0451	.0968	.1492	.1792	.1503	.0389			
120.000						.0022			
130.000						.1280			
140.000						.0089			
150.000						.1053			
160.000						.2490			
170.000						.4135			
180.000	.0483	.0492	.0946	.1479	.2209	-.1017			

MACH (1) = .800 ALPHA (3) = -4.303

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1978	.1121	-.0379												
70.000	.2822	.1464	.0011												
80.000	.2571	.1557	.0052												
90.000			.0020	-.1680	-.2544	-.1380	-.0805	.0000	-.0393	-.0591	-.0319	-.0249	-.0028	-.0215	-.0263
100.000						-.1530	-.1185	-.0923	-.0479	-.0367	-.0207	-.0405	-.0273	-.0482	-.0139
110.000						-.1962	-.1642	-.1345	-.0757	-.0495	-.0236	-.0285	-.0199	-.2146	-.0212
120.000						-.1664								-.4028	
130.000						-.3442								-.0909	
140.000						-.3714								-.1115	
150.000						-.3055								-.1220	
160.000						-.2710								-.1373	
170.000						-.3020								-.1545	
180.000						-.2633	-.2195	-.2039	-.2048	-.1924	-.1601	-.1529	-.1421	-.1405	-.1354

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0004	.0108	.0186	.0282	.0384	.0262	.0222	.0000	-.0047	-.0221	-.0265	-.0663	-.0753	-.1611	[illegible]
100.000	-.0092	-.0104	.0029	.0090	.0237	.0068	-.0089	.0036	-.0021	-.0506	-.0836	-.0550	-.0617	-.1	[illegible]
110.000	-.0012	-.0060	-.0034	-.0037	.0004	-.0101	-.0141	-.0137	-.0173	-.0361	-.0340	-.0524	-.0369	-.1	[illegible]
120.000						-.0485								-.0365	
130.000						-.0855								-.0543	
140.000						-.0916								-.0	
150.000						-.0661								-.0	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .600 ALPHA (3) = -4.303

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
180.000						-.0926								-.0433	
170.000						-.0897								-.0582	
160.000	-.1200	-.1219	-.1009	-.1048	-.1054	-.1094	-.1207	-.1217	-.1227	-.1091	-.1047	-.0963	-.0782	-.0569	-.0336

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0723		
70.000							.0461	.0227	.0000
60.000							.0349	-.0061	-.0160
90.000	-.0532	-.0140	.0235	.0350	.0452	.0000	.0415	-.0144	-.0327
100.000	-.0121	.0273	.0558	.0896	.0733	.0505			
110.000	.0145	.0631	.1226	.1763	.1499	.0269			
120.000						.0106			
130.000						.1096			
140.000						-.0372			
150.000						.0649			
160.000						.2161			
170.000						.3857			
180.000	-.0246	.0366	.0765	.1235	.2090	-.1267			

MACH (1) = .599 ALPHA (4) = -2.256

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1868	.1248	-.0255												
70.000	.2524	.1473	.0018												
60.000	.2534	.1280	.0076												
90.000			.0118	-.1628	-.2674	-.1429	-.0894	.0000	-.0547	-.0823	-.0574	-.0554	-.0142	-.0371	-.0346
100.000						-.1638	-.1346	-.1048	-.0769	-.0595	-.0409	-.0557	-.0340	-.0636	-.0218
110.000						-.1974	-.1661	-.1606	-.1025	-.0753	-.0653	-.0423	-.0371	-.1537	-.0394
120.000						-.1978								-.2836	
130.000						-.3816								-.1195	
140.000						-.4134								-.1409	
150.000						-.3409								-.1418	
160.000						-.2924								-.1565	
170.000						-.3200								-.1651	
180.000						-.2847	-.2463	-.2412	-.2277	-.2120	-.1738	-.1597	-.1527	-.1597	-.1335

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100

PHI

AMES 60-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .599 ALPHA (4) = -2.256

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.4500	.4660	.4860	.5030	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0071	-.0059	-.0059	-.0005	.0021	-.0126	-.0008	.0000	-.03:9	-.0601	-.0722	-.1049	-.1208	-.1144	.0000
100.000	-.0292	-.0436	-.0388	-.0244	-.0097	-.0292	-.0306	-.0364	-.0277	-.0822	-.0654	-.0991	-.1163	-.0800	-.0655
110.000	-.0366	-.0391	-.0334	-.0385	-.0375	-.0557	-.0471	-.0423	-.0416	-.0572	-.0757	-.1040	-.0890	-.0848	-.0555
120.000						-.0927								-.0865	
130.000						-.1224								-.0621	
140.000						-.1240								-.0806	
150.000						-.0977								-.0767	
160.000						-.1045								-.0731	
170.000						-.1097								-.0913	
180.000	-.1377	-.1333	-.1365	-.1333	-.1282	-.1263	-.1331	-.1353	-.1259	-.1211	-.1183	-.1212	-.0965	-.0952	-.0397

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0583		
70.000							.0267	.0127	.0000
80.000							.0239	-.0305	-.0295
90.000	-.0794	-.037?	.0121	.0333	.0374	.0000	.0300	-.0259	-.0375
100.000	-.0449	.0083	.0422	.0936	.0695	.0563			
110.000	-.0091	.0458	.1176	.1773	.1472	.0339			
120.000						.0230			
130.000						.0804			
140.000						-.0927			
150.000						.0291			
160.000						.1896			
170.000						.3462			
180.000	-.0201	.0130	.0567	.1199	.1879	-.1552			

MACH (1) = .599 ALPHA (5) = -.168

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1752	.1072	-.0303												
70.000	.2292	.1580	.0054												
80.000	.1933	.1136	.0060												
90.000			.0185	-.1724	-.2721	-.1614	-.1012	.0000	-.0669	-.0951	-.0803	-.0621	-.0426	-.0576	-.0687
100.000						-.1749	-.1460	-.1223	-.0925	-.0707	-.0579	-.0681	-.0630	-.0802	-.0563
110.000						-.2028	-.1807	-.1710	-.1220	-.0887	-.0758	-.0821	-.0646	-.1179	-.0733
120.000						-.2333								-.1633	
130.000						-.4463								-.1504	
140.000						-.4630								-.1643	
150.000						-.3735								-.1[illegible]	

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .599 ALPHA (5) = -.168

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
180.000						-.3273								-.1810	
170.000						-.3347								-.1759	
160.000						-.3103	-.2582	-.2473	-.2320	-.2111	-.1810	-.1772	-.1638	-.1644	-.1536

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0343	-.0276	-.0247	-.0158	-.0097	-.0375	-.0377	.0000	-.0659	-.1070	-.1104	.1467	-.1605	-.1396	.0000
100.000	-.0595	-.0595	-.0678	-.0397	-.0285	-.0550	-.0626	-.0704	-.0623	-.1310	-.1033	-.1344	-.1505	-.1188	-.1041
110.000	-.0627	-.0674	-.0684	-.0650	-.0697	-.0818	-.0821	-.0902	-.0938	-.1067	-.1250	-.1438	-.1276	-.1149	-.0935
120.000						-.1309								-.1347	
130.000						-.1615								-.1033	
140.000						-.1615								-.0991	
150.000						-.1336								-.0945	
160.000						-.1356								-.0929	
170.000						-.1314								-.0952	
180.000	-.1468	-.1462	-.1392	-.1331	-.1369	-.1330	-.1401	-.1456	-.1408	-.1469	-.1211	-.1311	-.1065	-.0922	-.0597

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0646		
70.000							.0325	.0152	.0000
80.000							.0248	-.0137	-.0118
90.000	-.1225	-.0595	-.0101	.0153	.0250	.0000	.0296	-.0140	-.0321
100.000	-.0729	-.0099	.0318	.0717	.0628	.0575			
110.000	-.0497	.0275	.0967	.1708	.1643	.0534			
120.000						.0351			
130.000						.0527			
140.000						-.1425			
150.000						.0946			
160.000						.1682			
170.000						.3185			
180.000	-.0593	-.0059	.0480	.1032	.1781	-.1512			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (1) = .599 ALPHA (6) = 1.985

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1800	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1735	.1109	-.0158												
70.000	.2055	.1931	.0083												
80.000	.1618	.1322	.0103												
90.000			.0066	-.1877	-.2911	-.1690	-.1146	.0000	-.0819	-.1198	-.0819	-.0819	-.0464	-.0875	-.0726
100.000						-.1845	-.1634	-.1435	-.1047	-.0931	-.0768	-.0992	-.0745	-.1193	-.0787
110.000						-.2095	-.2016	-.1911	-.1480	-.1198	-.1024	-.0988	-.0915	-.1158	-.0902
120.000						-.2593								-.1423	
130.000						-.4955								-.1960	
140.000						-.5013								-.1951	
150.000						-.3965								-.1919	
160.000						-.3493								-.1897	
170.000						-.3551								-.1932	
180.000						-.3188	-.2758	-.2524	-.2482	-.2209	-.2052	-.1759	-.1657	-.1740	-.1519

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0429	-.0478	-.0515	-.0333	-.0323	-.0585	-.0515	.0000	-.1056	-.1313	-.1565	-.1935	-.2107	-.1945	.0000
100.000	-.0781	-.0949	-.0824	-.0770	-.0585	-.1000	-.1046	-.1062	-.1056	-.1663	-.1432	-.1854	-.1961	-.1549	-.1311
110.000	-.1041	-.1016	-.0952	-.1121	-.1041	-.1326	-.1124	-.1342	-.1309	-.1413	-.1594	-.1870	-.1682	-.1507	-.1304
120.000						-.1952								-.1685	
130.000						-.1991								-.1406	
140.000						-.1865								-.1367	
150.000						-.1514								-.1221	
160.000						-.1511								-.1140	
170.000						-.1446								-.1224	
180.000	-.1901	-.1492	-.1450	-.1415	-.1441	-.1397	-.1465	-.1465	-.1527	-.1504	-.1364	-.1344	-.1227	-.0987	-.0672

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0562		
70.000							.0260	.0301	.0900
80.000							.0308	-.0168	-.0178
90.000	-.1465	-.0720	-.0310	.0160	.0257	.0900	.0337	-.0174	-.0400
100.000	-.1059	-.0317	.0180	.0613	.0581	.0520			
110.000	-.0755	.0000	.0723	.1545	.1679	.0520			
120.000						.0391			
130.000						.0423			
140.000						-.1874			
150.000						-.0313			
160.000						.1563			
170.000						.2616			
180.000	-.0817	-.0062	.0305	.0818	.1515	-.1626			

AMES 66-65O PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .800 ALPHA (7) = 4.152

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1561	.1137	-.0198												
70.000	.1805	.1352	-.0012												
80.000	.1105	.1166	-.0053												
90.000			.0213	-.1586	-.2868	-.1831	-.1155	.0000	-.0908	-.1325	-.0982	-.0953	-.0643	-.0806	-.0953
100.000						-.1945	-.1681	-.1450	-.1194	-.1033	-.0915	-.1168	-.0953	-.1319	-.0968
110.000						-.2349	-.2242	-.2142	-.1678	-.1521	-.1347	-.1358	-.1268	-.1310	-.1230
120.000						-.2942								-.1370	
130.000						-.5548								-.2107	
140.000						-.5513								-.2158	
150.000						-.4368								-.1373	
160.000						-.3548								-.1092	
170.000						-.3593								-.1132	
180.000						-.3141	-.2723	-.2489	-.2437	-.2152	-.2069	-.1852	-.1718	-.1654	-.1559

X/L	.4500	.4630	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	360	.6540	.6730	.6[illegible]80	.7100
PHI															
90.000	-.0808	-.0823	-.0823	-.0563	-.0639	-.0[illegible]5	-.0903	.0000	-.1379	-.1817	-.1662	-.2365	-.2453	-.2[illegible]74	.0000
100.000	-.0889	-.1092	-.1038	-.0898	-.0773	-.1223	-.1324	-.1395	-.1263	-.2092	-.1875	-.2137	-.2277	-.1[illegible]66	-.1741
110.000	-.1245	-.1176	-.1243	-.1402	-.1398	-.1612	-.1729	-.1668	-.1674	-.1836	-.2089	-.2[illegible]07	-.2047	-.1[illegible]86	-.1693
120.000						-.2378								-.2[illegible]76	
130.000						-.2465								-.16[illegible]	
140.000						-.2206								-.1[illegible]53	
150.000						-.1716								-.1[illegible]05	
160.000						-.1638								-.1162	
170.000						-.1525								-.1[illegible]95	
180.000	-.1536	-.1513	-.1437	-.1542	-.1421	-.1476	-.1515	-.1596	-.1642	-.1428	-.1412	-.1454	-.1224	-.1032	-.0739

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0627		
70.000							.0377	.0284	.0000
80.000							.1249	-.0085	-.0004
90.000	-.1841	-.1084	-.0327	.0014	.0287	.0000	.0413	-.0124	-.0269
100.000	-.1226	-.0514	.0046	.0630	.0761	.0679			
110.000	-.1193	-.0256	.0630	.1560	.1750	.0708			
120.000						.0534			
130.000						.0249			
140.000						-.2259			
150.000						-.0539			
160.000						.1459			
170.000						.2465			
180.000	-.1087	-.0070	.0319	.0784	.1384	-.1493			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .601 ALPHA (6) = 6.240

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1440	.1078	-.0245												
70.000	.1590	.1158	-.0006												
80.000	.0861	.1024	-.0041												
90.000			.0032	-.1983	-.3079	-.1897	-.1203	.0000	-.0845	-.1411	-.1162	-.1136	-.0724	-.0956	-.1112
100.000						-.2136	-.1823	-.1654	-.1283	-.1232	-.1210	-.1350	-.1115	-.1601	-.1159
110.000						-.2437	-.2500	-.2459	-.1903	-.1717	-.1631	-.1553	-.1601	-.1401	-.1588
120.000						-.3088								-.1375	
130.000						-.6030								-.2547	
140.000						-.5976								-.2360	
150.000						-.4602								-.2319	
160.000						-.3893								-.2017	
170.000						-.3587								-.1979	
180.000						-.3357	-.2807	-.2449	-.2446	-.2305	-.1903	-.1896	-.1645	-.1655	-.1579

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0892	-.0762	-.0857	-.0714	-.0838	-.1181	-.1130	.0000	-.1682	-.2247	-.2211	-.2634	-.2769	-.2395	.0000
100.000	-.1280	-.1337	-.1289	-.1203	-.1130	-.1372	-.1549	-.1714	-.1562	-.2567	-.2220	-.2466	-.2660	-.2243	-.1992
110.000	-.1480	-.1505	-.1502	-.1687	-.1674	-.1976	-.2034	-.2244	-.2211	-.2266	-.2666	-.2766	-.2368	-.2359	-.1834
120.000						-.3006								-.2463	
130.000						-.2777								-.1988	
140.000						-.2531								-.1839	
150.000						-.1766								-.1617	
160.000						-.1730								-.1316	
170.000						-.1830								-.1239	
180.000	-.1518	-.1537	-.1461	-.1496	-.1505	-.1398	-.1530	-.1527	-.1527	-.1659	-.1471	-.1336	-.1261	-.1100	-.0811

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0733		
70.000							.0340	.0381	.0000
80.000							.0388	-.0153	.0017
90.000	-.2191	-.1278	-.0439	-.0044	.0285	.0000	.0362	-.0146	-.0159
100.000	-.1414	-.0631	-.0044	.0560	.0694	.0707			
110.000	-.1411	-.0574	.0505	.1524	.1883	.0720			
120.000						.0500			
130.000						-.0073			
140.000						-.2611			
150.000						-.0852			
160.000						.1212			
170.000						.2069			
180.000	-.0673	-.0195	.0208	.0515	.1110	-.1552			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (1) = .800 ALPHA (9) = 8.327

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1262	.0954	-.0161												
70.000	.1358	.1166	-.0020												
80.000	.0390	.0781	.0018												
90.000			-.0094	-.2028	-.2963	-.1913	-.1442	.0000	-.1259	-.1650	-.1515	-.1336	-.0925	-.1139	-.1221
100.000						-.2147	-.2092	-.1935	-.1477	-.1432	-.1416	-.1621	-.1374	-.1744	-.1387
110.000						-.2643	-.2842	-.2758	-.2355	-.2092	-.2041	-.1922	-.1792	-.1591	-.1827
120.000						-.3556								-.1479	
130.000						-.6480								-.2789	
140.000						-.6265								-.2557	
150.000						-.4834								-.2286	
160.000						-.4193								-.2082	
170.000						-.3719								-.1846	
180.000						-.3421	-.3005	-.2640	-.2310	-.2044	-.2079	-.1779	-.1833	-.1636	-.1661

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0861	-.1049	-.1081	-.1043	-.1056	-.1521	-.1322	.0000	-.2028	-.2478	-.2746	-.3122	-.3404	-.3025	.0000
100.000	-.1444	-.1655	-.1659	-.1381	-.1298	-.1866	-.2006	-.2080	-.1970	-.3000	-.2642	-.3057	-.3183	-.2642	-.2005
110.000	-.1946	-.1946	-.2016	-.2236	-.2207	-.2462	-.2365	-.2456	-.2579	-.2802	-.3206	.0000	-.3038	-.2814	-.2356
120.000						-.3537								-.2973	
130.000						-.3155								-.2425	
140.000						-.2482								-.2050	
150.000						-.2067								-.1836	
160.000						-.1973								-.1509	
170.000						-.1475								-.1340	
180.000	-.1531	-.1722	-.1483	-.1572	-.1509	-.1649	-.1400	-.1575	-.1513	-.1517	-.1590	-.1518	-.1392	-.1181	-.0863

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0596		
70.000							.0199	.0241	.0000
80.000							.0193	-.0247	-.0173
90.000	-.2121	-.1442	-.0535	-.0085	.0291	.0000	.0285	-.0257	-.0267
100.000	-.1870	-.0799	-.0265	.0608	.0729	.0641			
110.000	-.1587	-.0661	.0367	.1553	.1834	.0837			
120.000						.0503			
130.000						-.0447			
140.000						-.3141			
150.000						-.1248			
160.000						.0725			
170.000						.1481			
180.000	-.0867	-.0136	.0264	.0297	.0686	-.1049			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .750 ALPHA (1) = -8.456

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2089	.1038	-.0968												
70.000	.3022	.1503	-.0491												
80.000	.3107	.1633	-.0201												
90.000			-.0233	-.2310	-.3201	-.1599	-.0829	.0000	-.0182	-.0310	-.0076	-.0034	.0109	-.0042	.0223
100.000						-.1795	-.1015	-.0922	-.0355	-.0140	.0080	-.0050	.0008	-.0246	.0120
110.000						-.2533	-.1845	-.1238	-.0559	-.0241	-.0108	-.0053	.0252	-.3206	.0250
120.000						-.1490								-.4401	
130.000						-.2777								-.0285	
140.000						-.3151								-.0612	
150.000						-.2554								-.0764	
160.000						-.2395								-.1127	
170.000						-.2634								-.1187	
180.000						-.2445	-.2116	-.1896	-.1372	-.1644	-.1344	-.1280	-.1129	-.1013	-.1132

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0457	.0513	.0550	.0874	.0821	.0762	.1006	.0903	.0868	.0576	.0627	.0277	.0152	.0149	.0000
100.000	.0311	.0218	.0439	.0661	.0802	.0826	.0613	.0815	.0990	.0409	.0768	.0250	.0192	.0420	.0220
110.000	.0480	.0433	.0571	.0561	.0640	.0598	.0595	.0579	.0661	.0679	.0476	.0306	.0364	.0237	.0170
120.000						.0378								.0370	
130.000						-.0104								.0441	
140.000						-.0292								.0407	
150.000						-.0244								.0099	
160.000						-.0426								.0229	
170.000						-.0448								-.0019	
180.000	-.0456	-.1036	-.0735	-.0669	-.0558	-.0649	-.0705	-.0947	-.0896	-.0737	-.0607	-.0599	-.0264	-.0119	.0146

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0738		
70.000							.0592	.0163	.0000
80.000							.0287	-.0136	-.0168
90.000	.0045	.0207	.0719	.0692	.0647	.0005	.0332	-.0197	-.0428
100.000	.0173	.0743	.0981	.1180	.0992	.0582			
110.000	.0605	.0756	.1692	.1952	.1558	.0218			
120.000						.0016			
130.000						.1489			
140.000						.0685			
150.000						.1611			
160.000						.2914			
170.000						.4569			
180.000	.0895	.0907	.1496	.2032	.3150	.0725			

AMES 68-61C PRESSURE VENTING - INTEG. VEHICLE (PEB028)

MACH / Z, = .749 ALPHA / Z, = -6.347

SECTION / (/OBB, FUSELAGE DEPENDENT VARIABLE CP

X/L	.2875	.3260	.3645	.4030	.4415	.4800	.5185	.5570	.5955	.6340	.6725	.7110	.7495	.7880	
PHI															
80.000	.1998	.1145	-.1004												
95.000	.2851	.1558	-.0300												
90.000	.2898	.1345	-.0183												
95.000			-.0054	-.2238	-.3313	-.1678	-.1001	.0000	-.0383	-.0685	-.0192	-.0176	.0028	-.0214	.0025
100.000						-.1892	-.1259	-.0911	-.0424	-.0291	-.0097	-.0258	.0052	-.0287	-.0031
105.000						-.2321	-.1751	-.1256	-.0754	-.0387	-.0192	-.0277	.0028	-.1396	-.0124
110.000						-.2812								-.3218	
115.000						-.3253								-.0681	
120.000						-.3620								-.0913	
125.000						-.3117								-.0994	
130.000						-.2771								-.1315	
135.000						-.3026								-.1227	
140.000						-.2719	-.2150	-.1780	-.2142	-.1736	-.1522	-.1435	-.1429	-.1487	-.1352

X/L	.4500	.4885	.4900	.5635	.5240	.5465	.5810	.6200	.6585	.6970	.7355	.7740	.8125	.8510	
PHI															
80.000	.0259	.0385	.0811	.0814	.0424	.0339	.0363	.0000	.0386	.0153	.0241	-.0139	-.0384	-.1381	.0100
100.000	.0172	.0185	.0251	.0358	.0676	.0329	.0363	.0241	.0347	-.0101	.0241	-.0048	-.0288	-.0129	-.0181
110.000	.0159	.0225	.0297	.0153	.0423	.0214	.0217	.0315	.0347	.0169	.0338	.0096	-.0134	-.0297	-.0179
120.000						.0								-.0 63	
130.000						-.1755								.0013	
140.000						-.2653								-.0155	
150.000						-.2437								-.0225	
160.000						-.2332								-.0333	
170.000						-.2736								-.0415	
180.000	-.0992	-.0669	-.0889	-.0995	-.0881	-.1735	-.1129	-.1089	-.1027	-.1008	-.0834	-.0809	-.0681	-.0347	.0057

X/L	.7250	.7475	.7700	.7925	.8150	.8375	.8600	.8825	.9050
PHI									
80.000							.0643		
95.000							.0478	.0084	.0000
90.000							.0355	-.0335	-.0215
95.000	-.0388	-.0088	.0379	.0565	.0483	.0000	.0403	-.0172	-.0343
100.000	.0025	.0398	.0748	.1084	.0125	.0621			
105.000	.0339	.0681	.1587	.1944	.1082	.0441			
110.000						.0188			
115.000						.1515			
120.000						.0212			
125.000						.1249			
130.000						.2835			
135.000						.4358			
140.000	.0294	.0579	.1111	.1818	.2832	.0411			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .749 ALPHA (3) = -4.188

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2038	.1082	-.0738												
70.000	.2679	.1521	-.0262												
80.000	.2629	.1564	-.0156												
90.000			-.0063	.0000	-.3275	-.1759	-.1069	.0000	-.0509	-.0713	-.0395	-.0395	-.0142	-.0327	-.0274
100.000						-.2073	-.1399	-.1112	-.0695	-.0501	-.0336	-.0315	-.0282	-.0491	-.0123
110.000						-.2456	-.1919	-.1608	-.0984	-.0580	-.0445	-.0329	-.0210	-.1334	-.0300
120.000						-.2190								-.2326	
130.000						-.3982								-.0909	
140.000						-.4163								-.1176	
150.000						-.3575								-.1287	
160.000						-.3036								-.1467	
170.000						-.3392								-.1596	
180.000						-.2996	-.2376	-.2188	-.2185	-.1999	-.1813	-.1713	-.1536	-.1491	-.1401

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0007	.0100	.0187	.0320	.0371	.0214	.0379	.0000	.0100	-.0219	-.0344	-.0621	-.0975	-.0965	.0000
100.000	-.0134	-.0141	-.0046	.0100	.0246	.0073	.0060	.0070	.0142	-.0493	-.0209	-.0602	-.0790	-.0658	-.0632
110.000	-.0131	-.0033	-.0041	-.0109	.0007	-.0205	-.0071	-.0133	-.0157	-.0238	-.0465	-.0642	-.0564	-.0637	-.0487
120.000						-.0485								-.0561	
130.000						-.0859								-.0387	
140.000						-.1039								-.0561	
150.000						-.0824								-.0026	
160.000						-.1012								-.0586	
170.000						-.0932								-.0717	
180.000	-.1233	-.1220	-.1104	-.1162	-.1122	-.1149	-.1300	-.1254	-.1141	-.1192	-.0973	-.0970	-.0657	-.0615	-.0295

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0618		
70.000							.0408	.0174	.0000
80.000							.0243	-.0319	-.0255
90.000	-.0709	-.0250	.0076	.0347	.0435	.0000	.0325	-.0242	-.0381
100.000	-.0308	.0171	.0568	.1004	.0719	.0485			
110.000	-.0025	.0562	.1256	.1817	.1535	.0304			
120.000						.0129			
130.000						.1237			
140.000						-.0279			
150.000						.0838			
160.000						.2430			
170.000						.3921			
180.000	-.0116	.0408	.1033	.1639	.2672	.0246			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .751 ALPHA (4) = -2.139

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2142	.1285	-.0450												
70.000	.2739	.1532	-.0081												
80.000	.2532	.1526	.0086												
90.000			.0120	-.2087	-.3362	-.1791	-.1190	.0000	-.0793	-.0938	-.0663	-.0541	-.0189	-.0455	-.0350
100.000						-.1931	-.1707	-.138	-.0909	-.0663	-.0509	-.0557	-.0363	-.0740	-.0439
110.000						-.244	-.2121	-.1874	-.1233	-.0878	-.0692	-.0505	-.0423	-.1043	-.0495
120.000						-.2509								-.1697	
130.000						-.4401								-.1220	
140.000						-.4766								-.1412	
150.000						-.3871								-.1407	
160.000						-.3457								-.1605	
170.000						-.3722								-.1655	
180.000						-.3325	-.2633	-.2405	-.2235	-.2171	-.1784	-.1597	-.1507	-.1594	-.1439

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0183	-.0195	-.0071	.0021	.0098	-.0008	.0094	.0000	-.0217	-.0611	-.0823	-.1314	-.1655	-.1582	.0000
100.000	-.0355	-.0475	-.0366	-.0187	-.0018	-.0155	-.0198	-.0260	-.0238	-.0960	-.0834	-.1218	-.1478	-.1094	-.0851
110.000	-.0403	-.0430	-.0398	-.0475	-.0271	-.0435	-.0305	-.0380	-.0466	-.0740	-.1006	-.1258	-.1183	-.1151	-.0718
120.000						-.0941								-.1126	
130.000						-.1281								-.0850	
140.000						-.1179								-.0869	
150.000						-.0949								-.0837	
160.000						-.1072								-.0751	
170.000						-.1144								-.0933	
180.000	-.1567	-.1516	-.1311	-.1345	-.1303	-.1206	-.1391	-.1329	-.1453	-.1469	-.1277	-.1236	-.0995	-.0797	-.0321

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0528		
70.000							.0403	.0154	.0000
80.000							.0255	-.0248	-.0130
90.000	-.1200	-.0542	.0019	.0316	.0345	.0000	.0244	-.0245	-.0309
100.000	-.0662	-.0042	.0449	.0851	.0624	.0382			
110.000	-.0519	.0279	.1122	.1874	.1617	.0292			
120.000						.0157			
130.000						.1016			
140.000						-.0791			
150.000						.0408			
160.000						.2198			
170.000						.3542			
180.000	-.0460	.0367	.0870	.1480	.2339	.0143			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .750 ALPHA (9) = .042

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

x/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1983	.1194	-.0476												
70.000	.2562	.1504	-.0044												
80.000	.2069	.1339	.0060												
90.000			.0100	-.2134	-.3368	-.1974	-.1359	.0000	-.0932	-.1082	-.0820	-.0727	-.0444	-.0862	-.0633
100.000						-.2180	-.1685	-.1450	-.1066	-.0935	-.0746	-.0895	-.0583	-.0973	-.0545
110.000						-.2497	-.2170	-.2122	-.1418	-.1162	-.0970	-.0851	-.0768	-.0941	-.0710
120.000						-.2756								-.1249	
130.000						-.4943								-.1634	
140.000						-.5215								-.1682	
150.000						-.4219								-.1685	
160.000						-.3851								-.1749	
170.000						-.4051								-.1791	
180.000						-.3782	-.2774	-.2488	-.2307	-.2224	-.1850	-.1818	-.1666	-.1669	-.1536

x/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0317	-.0242	-.0311	-.0165	-.0073	-.0285	-.0166	.0000	-.0609	-.1041	-.1415	-.1834	-.2203	-.2058	.0000
100.000	-.0583	-.0659	-.0596	-.0444	-.0280	-.0577	-.0655	-.0660	-.0676	-.1386	-.1335	-.1772	-.1971	-.1661	-.1545
110.000	-.0752	-.0736	-.0720	-.0710	-.0694	-.0781	-.0838	-.0852	-.0992	-.1211	-.1426	-.1801	-.1710	-.1615	-.1344
120.000						-.1517								-.1634	
130.000						-.1713								-.1410	
140.000						-.1699								-.1388	
150.000						-.1384								-.1105	
160.000						-.1378								-.1100	
170.000						-.1411								-.1108	
180.000	-.1498	-.1506	-.1427	-.1435	-.1496	-.1443	-.1500	-.1473	-.1559	-.1513	-.1456	-.1410	-.1245	-.1003	-.0594

x/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0682		
70.000							.0341	.0186	.0000
80.000							.0210	-.0248	-.0216
90.000	-.1768	-.0867	-.0178	.0108	.0381	.0000	.0212	-.0181	-.0390
100.000	-.1205	-.0395	.0124	.0794	.0688	.0453			
110.000	-.0942	.0004	.0971	.1793	.1627	.0341			
120.000						.0311			
130.000						.0770			
140.000						-.1360			
150.000						.0076			
160.000						.1923			
170.000						.3201			
180.000	-.0846	.0130	.0672	.1318	.2128	.0026			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (Z) = .751 ALPHA (6) = 2.182

SECTION (1)OF8. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1751	.1106	-.0389												
70.000	.2114	.1335	-.0064												
80.000	.1733	.1437	.0000												
90.000			.0109	-.2135	-.3686	-.2139	.1491	.0000	-.0953	-.1329	-.1001	-.0873	-.0522	-.0808	-.0837
100.000						-.2258	-.1890	-.1709	-.1267	-.1086	-.0956	-.1004	-.0837	-.1160	-.0803
110.000						-.2583	-.2324	-.2311	-.1709	-.1496	-.1286	-.1123	-.1059	-.1033	-.1004
120.000						-.3199								-.1118	
130.000						-.5755								-.1926	
140.000						-.5846								-.1981	
150.000						-.4615								-.1841	
160.000						-.4206								-.1859	
170.000						-.4589								-.1838	
180.000						-.4474	-.2872	-.2598	-.2337	-.2186	-.1911	-.1814	-.1727	-.1858	-.1475

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0551	-.0466	-.0437	-.0381	-.0334	-.0607	-.1472	.0000	-.0935	-.1565	-.1793	-.2442	-.2735	-.2538	.0000
100.000	-.0815	-.0824	-.0863	-.0609	-.0556	-.0916	-.0902	-.0989	-.0999	-.1839	-.1834	-.2359	-.2636	-.2351	-.1966
110.000	-.0985	-.0930	-.0991	-.1025	-.1062	-.1165	-.1252	-.1312	-.1447	-.1707	-.1990	-.2281	-.2264	-.2124	-.1765
120.000						-.2018								-.2143	
130.000						-.2189								-.1807	
140.000						-.2089								-.1680	
150.000						-.1535								-.1500	
160.000						-.1543								-.1303	
170.000						-.1497								-.1231	
180.000	-.1507	-.1605	-.1502	-.1602	-.1494	-.1524	-.1586	-.1575	-.1651	-.1661	-.1551	-.1505	-.1258	-.1128	-.0717

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0559		
70.000							.0263	.0245	.0000
80.000							.0247	-.0273	-.0083
90.000	-.2099	-.1225	-.0388	.0030	.0322	.0000	.0247	-.0206	-.0337
100.000	-.1618	-.0722	.0088	.0676	.0681	.0466			
110.000	-.1353	-.0295	.0820	.1712	.1608	.0466			
120.000						.0333			
130.000						.0607			
140.000						-.1803			
150.000						-.0270			
160.000						.1632			
170.000						.2702			
180.000	-.1404	.0114	.0599	.1137	.1842	-.0198			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .751 ALPHA (7) = 4.269

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1561	.1082	-.0316												
70.000	.1855	.1371	-.0028												
80.000	.1256	.1363	.0098												
90.000			.0197	-.1954	-.3718	-.2148	-.1443	.0000	-.1142	-.1454	-.1131	-.0974	-.0725	-.0862	-.0902
100.000						-.2398	-.2067	-.1851	-.1448	-.1241	-.1115	-.1267	-.1014	-.1329	-.0916
110.000						-.2836	-.2629	-.2470	-.1854	-.1694	-.1438	-.1409	-.1316	-.1202	-.1263
120.000						-.3558								-.1194	
130.000						-.6236								-.2127	
140.000						-.6374								-.2186	
150.000						-.5097								-.2000	
160.000						-.4822								-.1982	
170.000						-.5086								-.1825	
180.000						-.5038	-.3312	-.2664	-.2312	-.2035	-.1800	-.1751	-.1568	-.1594	-.1536

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0800	-.0690	-.0590	-.0489	-.0539	-.0807	-.0753	.0000	-.1325	-.1918	-.2291	-.2880	-.3230	-.3171	.0000
100.000	-.0939	-.1155	-.1043	-.0836	-.0751	-.1062	-.1212	-.1319	-.1333	-.2360	-.2141	-.2880	-.3195	-.2794	-.2318
110.000	-.1218	-.1259	-.1192	-.1391	-.1327	-.1582	-.1586	-.1726	-.1837	-.2187	-.2672	-.2966	-.2832	-.2745	-.2366
120.000						-.2515								-.2621	
130.000						-.2559								-.2174	
140.000						-.2295								-.1961	
150.000						-.1837								-.1681	
160.000						-.1740								-.1376	
170.000						-.1581								-.1333	
180.000	-.1502	-.1499	-.1491	-.1525	-.1497	-.1369	-.1589	-.1565	-.1646	-.1610	-.1656	-.1549	-.1336	-.1115	-.0799

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0066		
70.000							.0378	.0364	.0000
80.000							.0359	-.0140	.0076
90.000	-.2468	-.1418	-.0665	.0023	.0330	.0000	.0341	-.0127	-.0132
100.000	-.1989	-.0973	-.0154	.0546	.0751	.0514			
110.000	-.1745	-.0542	.0602	.1701	.1833	.0679			
120.000						.0434			
130.000						.0332			
140.000						-.2416			
150.000						-.0550			
160.000						.1367			
170.000						.2236			
180.000	-.0901	.0074	.0527	.0885	.1537	-.0542			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (Z) = .750 ALPHA (B) = 6.426

SECTION (1)ORB. FUSELAGE DEPENCENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1401	.1043	-.0254												
70.000	.1628	.1284	-.0033												
80.000	.0939	.1201	.0101												
90.000			.0320	-.2073	-.3690	-.2215	-.1726	.0000	-.1348	-.1614	-.1364	-.1241	-.0823	-.0990	-.1001
100.000						-.2513	-.2222	-.2081	-.1766	-.1457	-.1220	-.1326	-.1208	-.1516	-.1144
110.000						-.2876	-.2909	-.3000	-.2358	-.2019	-.1734	-.1677	-.1616	-.1293	-.1460
120.000						-.3885								-.1242	
130.000						-.6803								-.2479	
140.000						-.6883								-.2373	
150.000						-.5509								-.2044	
160.000						-.5682								-.1983	
170.000						-.5866								-.1837	
180.000						-.6080	-.3984	-.2859	-.2371	-.2166	-.1875	-.1688	-.1505	-.1611	-.1500

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0786	-.0821	-.0914	-.0705	-.0691	-.0965	-.0959	.0000	-.1649	-.2275	-.2828	-.3437	-.4219	-.3888	.0000
100.000	-.1189	-.1278	-.1238	-.1018	-.0999	-.1405	-.1396	-.1684	-.1762	-.2871	-.2820	-.3648	-.4006	-.3454	-.2950
110.000	-.1892	-.1559	-.1641	-.1665	-.1737	-.2026	-.2005	-.2005	-.2267	-.2717	-.3254	-.3699	-.3497	-.3435	-.2685
120.000						-.2939								-.3224	
130.000						-.2927								-.2564	
140.000						-.2558								-.2181	
150.000						-.1962								-.1768	
160.000						-.1814								-.1601	
170.000						-.1574								-.1377	
180.000	-.1482	-.1578	-.1530	-.1469	-.1379	-.1371	-.1495	-.1611	-.1700	-.1617	-.1598	-.1542	-.1410	-.1126	-.0888

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0777		
70.000							.0348	.0460	.0000
80.000							.0399	-.0117	.0057
90.000	-.3036	-.1742	-.0639	-.0073	.0274	.0000	.0351	-.0021	-.0026
100.000	-.2380	-.1066	-.0261	.0373	.0680	.0625			
110.000	-.2056	-.0767	.0437	.1661	.1703	.0756			
120.000						.0420			
130.000						.0001			
140.000						-.2767			
150.000						-.1092			
160.000						.0953			
170.000						.1823			
180.000	-.1943	-.0022	.0335	.0645	.0892	-.06			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (2) = .750 ALPHA (9) = 8.586

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1338	.0972	-.0268												
70.000	.1400	.1210	-.0085												
80.000	.0488	.1028	.0018												
90.000			.0031	-.2102	-.3728	-.2292	-.1696	.0000	-.1338	-.1941	-.1549	-.1429	-.1023	-.1076	-.1060
100.000						-.2738	-.2358	-.2278	-.1829	-.1760	-.1458	-.1653	-.1403	-.1804	-.1337
110.000						-.3077	-.3132	-.3229	-.2510	-.2321	-.2064	-.1916	-.1793	-.1541	-.2024
120.000						-.4390								-.1411	
130.000						-.7340								-.2856	
140.000						-.7290								-.2526	
150.000						-.6529								-.2080	
160.000						-.6363								-.2001	
170.000						-.6521								-.1679	
180.000						-.6948	-.4644	-.3167	-.2411	-.2198	-.1813	- .658	-.1615	-.1618	-.1507

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0877	-.0965	-.0933	-.0835	-.0869	-.1220	-.1149	.0000	-.1877	-.2730	-.3251	-.3837	-.4347	-.4215	.0000
100.000	-.1432	-.1440	-.1427	-.1297	-.1254	-.1682	-.1783	-.1972	-.2074	-.3129	-.3165	-.3959	-.4369	-.3867	-.3084
110.000	-.2036	-.1802	-.1789	-.2094	-.2022	-.2408	-.2331	-.2457	-.2770	-.3313	-.3748	-.4158	-.3964	-.3837	-.3009
120.000						-.3577								-.3583	
130.000						-.3146								-.2738	
140.000						-.2627								-.2206	
150.000						-.2099								-.1866	
160.000						-.1834								-.1655	
170.000						-.1583								-.1499	
180.000	-.1475	-.1544	-.1518	-.1592	-.1507	-.1548	-.1699	-.1696	-.1769	-.1742	-.1644	-.1631	-.1620	-.1353	-.1066

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0377		
70.000							-.0035	-.0027	.0000
80.000							-.0070	-.0437	-.0338
90.000	-.3137	-.1850	-.0819	-.0154	.0082	.0000	.0056	-.0577	-.0472
100.000	-.2493	-.1423	-.0476	.0517	.0734	.0574			
110.000	-.2282	-.1050	.0199	.1623	.1795	.0705			
120.000						.0379			
130.000						-.0338			
140.000						-.3370			
150.000						-.1430			
160.000						.0312			
170.000						.0897			
180.000	-.1874	-.0326	.0074	.0357	.0529	-.0376			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB020)

MACH (5) = .849 ALPHA (1) = -0.397

SECTION (11068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2417	.1329	-.1032												
85.000	.3243	.1794	-.0424												
90.000	.3481	.1740	-.0223												
95.000			-.0144	-.2911	-.6698	-.2025	-.1095	.0000	-.0568	-.0575	-.0185	-.0107	.0361	-.0040	.0168
100.000						-.2229	-.1660	-.1125	-.0533	-.0264	-.0078	-.0190	.0143	-.0070	.0133
105.000						-.3966	-.1978	-.1603	-.0742	-.0509	-.0259	.0047	.0239	-.4040	.0118
110.000						-.2529								-.3494	
115.000						-.5995								-.0421	
120.000						-.3697								-.0656	
125.000						-.3762								-.0773	
130.000						-.3407								-.1163	
135.000						-.2487								-.1236	
140.000						-.3575	-.1409	-.1593	-.1848	-.1814	-.1441	-.1554	-.1344	-.1232	-.1046

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0499	.0501	.0560	.0805	.0652	.0974	.1139	.0946	.1085	.0633	.0696	.0251	-.0019	-.0051	.0000
95.000	.0180	.0273	.0472	.0715	.0996	.0667	.0557	.0755	.1007	.0607	.0634	.0234	.0038	.0212	.0172
100.000	.0452	.0562	.0428	.0477	.0636	.0593	.0872	.0862	.0926	.0678	.0438	.0259	.0271	.0119	.0263
105.000						.0364								.1340	
110.000						-.0994								.0364	
115.000						-.0314								.0205	
120.000						-.0196								.0244	
125.000						-.0148								.0089	
130.000						-.0309								-.0123	
135.000	-.1104	-.1028	-.0777	-.0675	-.0684	-.0652	-.0701	-.0773	-.0803	-.0830	-.0550	-.0451	-.0210	-.0046	.0459

X/L	.7290	.7470	.7650	.7650	.8050	.8290	.8620	.9000	.9400
PHI									
80.000							.0577		
85.000							.0320	-.0112	.0000
90.000							.0222	-.0341	-.0533
95.000	-.0004	.0418	.0785	.0864	.0539	.0999	.0327	-.0233	-.0615
100.000	.0035	.0865	.1347	.1222	.0920	.0445			
105.000	.0850	.1313	.1840	.2097	.1583	.0030			
110.000						-.0061			
115.000						.1718			
120.000						.0830			
125.000						.1706			
130.000						.3747			
135.000						.4678			
140.000	.0870	.1303	.1840	.2595	.3496	.1735			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .840 ALPHA (2) = -6.264

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.2311	.1260	-.0976												
70.000	.3023	.1743	-.0464												
60.000	.3091	.1682	-.0253												
50.000			-.0186	-.2776	-.6909	-.2178	-.1299	.0000	-.0514	-.0686	-.0548	-.0274	.0039	-.0264	-.0039
100.000						-.2512	-.1667	-.1221	-.0740	-.0451	-.0083	-.0171	-.0125	-.0388	.0020
110.000						-.4724	-.2111	-.1652	-.0833	-.0578	-.0308	-.0217	-.0086	-.2437	-.0049
120.000						-.5477								-.3977	
130.000						-.6138								-.0693	
140.000						-.7625								-.0952	
150.000						-.6517								-.0915	
160.000						-.4930								-.1296	
170.000						-.3836								-.1549	
180.000						-.2963	-.1534	-.1500	-.1780	-.1831	-.1740	-.1625	-.1413	-.1441	-.1164

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	.0240	.0342	.0391	.0722	.0734	.0641	.0765	.0000	.0616	.0410	.0310	-.0087	-.0524	-.0568	.0000
100.000	.0142	.0005	.0352	.0354	.0609	.0432	.0500	.0493	.0611	.0191	.0231	-.0189	-.0474	-.0273	-.0362
110.000	.0212	.0275	.0307	.0241	.0351	.0322	.0429	.0557	.0444	.0265	.0126	-.0243	-.0455	-.0179	-.0276
120.000						.0001								-.0263	
130.000						-.0520								-.0117	
140.000						-.0622								-.0129	
150.000						-.0436								-.0224	
160.000						-.0592								-.0236	
170.000						-.0704								-.0266	
180.000	-.1098	-.1117	-.0946	-.0888	-.0756	-.0877	-.1029	-.1001	-.0954	-.0897	-.0846	-.0564	-.0611	-.0360	.0054

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0650		
70.000							.0295	.0077	.0000
60.000							.0336	-.0315	-.0145
50.000	-.0584	-.0221	.0908	.0581	.0510	.0000	.0094	-.0322	-.0465
100.000	-.0229	.0216	.0787	.1165	.0905	.0398			
110.000	.0020	.0839	.1543	.2046	.1712	.0206			
120.000						.0077			
130.000						.1609			
140.000						.0518			
150.000						.1418			
160.000						.2894			
170.000						.4410			
180.000	.0240	.1008	.1536	.2362	.3299	.1435			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .850 ALPHA (3) = -4.124

SECTION (11068. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2319	.1280	-.0961												
70.000	.2921	.1626	-.0302												
80.000	.2665	.2045	-.0229												
90.000			-.0945	-.2762	-.6874	-.2760	-.1518	.0000	-.0857	-.0804	-.0392	-.0231	-.0074	-.0401	-.0249
100.000						-.2826	-.2023	-.1421	-.0860	-.0803	-.0299	-.0363	-.0347	-.0522	-.0225
110.000						.4717	-.2505	-.1942	-.1070	-.0545	-.0392	-.0210	-.0376	-.1661	-.0247
120.000						-.5056								-.2872	
130.000						-.6496								-.1046	
140.000						-.9883								-.1229	
150.000						-.6366								-.1327	
160.000						-.6838								-.1524	
170.000						-.6941								-.1614	
180.000						-.4562	-.2028	-.1376	-.1569	-.1822	-.1690	-.1565	-.1146	-.1522	-.1322

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0073	.0168	.0212	.0384	.0509	.0504	.0500	.0000	.0303	-.0094	-.0224	-.0782	-.1061	-.1304	-.0095
100.000	-.0132	-.0152	.0041	.0185	.0347	.0281	.0200	.0171	.0257	-.0288	-.0227	-.0636	-.1056	-.0970	-.0807
110.000	-.0089	-.0004	.0095	-.0022	.0168	.0119	.0161	.0085	-.0028	-.0213	-.0341	-.0710	-.0742	-.0908	-.0842
120.000						-.0351								-.0763	
130.000						-.0729								-.0524	
140.000						-.0992								-.0573	
150.000						-.0734								-.0586	
160.000						-.0947								-.0638	
170.000						-.1024								-.0573	
180.000	-.1169	-.1242	-.1057	-.1125	-.0967	-.0845	-.1229	-.1215	-.1150	-.1195	-.1019	-.0898	-.0779	-.0492	-.0180

X/L	.7290	.7470	.7670	.7850	.8030	.82..	.8620	.9000	.9400
PHI									
80.000							.0459		
90.000							.0229	.0185	.0000
80.000							.0222	-.0200	-.0171
90.000	-.1208	-.0460	.0088	.0340	.0310	.0000	.0249	-.0263	-.0259
100.000	-.0788	.0090	.0324	.0999	.0705	.0322			
110.000	-.0335	.0458	.1310	.1917	.1605	.0100			
120.000						.0080			
130.000						.1434			
140.000						-.0013			
150.000						.1106			
160.000						.2613			
170.000						.4025			
180.000	-.0350	.0764	.1383	.2101	.3071	.1314			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .850 ALPHA (4) = -2.020

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2148	.1278	-.0783												
70.000	.2675	.1599	-.0144												
80.000	.2560	.1560	-.0012												
90.000			.0150	-.2539	-.6551	-.2821	-.1879	.0000	-.1049	-.0929	-.0613	-.0523	-.0277	-.0533	-.0329
100.000						-.2897	-.2376	-.1815	-.1076	-.0723	-.0496	-.0474	-.0411	-.0521	-.0321
110.000						-.4060	-.3257	-.2483	-.1335	-.0792	-.0620	-.0519	-.0528	-.1188	-.0426
120.000						-.5983								-.2014	
130.000						-.8716								-.1315	
140.000						-1.0650								-.1396	
150.000						-.8895								-.1447	
160.000						-.8686								-.1481	
170.000						-.6671								-.1571	
180.000						-.5586	-.2628	-.1656	-.1401	-.1641	-.1521	-.1659	-.1537	-.1600	-.1393

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5380	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0107	-.0030	.0016	.0183	.0364	.0185	.0299	.0000	-.0007	-.0443	-.0717	-.1408	-.2042	-.1980	.0000
100.000	-.0314	-.0327	-.0259	-.0035	.0165	.0001	.0108	-.0054	-.0116	-.0765	-.0779	-.1346	-.1797	-.1646	-.1647
110.000	-.0305	-.0274	-.0288	-.0259	-.0142	-.0340	-.0284	-.0284	-.0383	-.0710	-.0965	-.1378	-.1482	-.1485	-.1404
120.000						-.0776								-.1455	
130.000						-.1245								-.1473	
140.000						-.1319								-.1034	
150.000						-.1037								-.0985	
160.000						-.1153								-.0866	
170.000						-.1166								-.0933	
180.000	-.1282	-.1331	-.1185	-.1231	-.1136	-.1228	-.1324	-.1280	-.1376	-.1396	-.1242	-.1235	-.1032	-.0697	-.0356

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0635		
70.000							.0305	.0212	.0000
80.000							.0197	-.0122	-.0119
90.000	-.1819	-.0939	-.0218	.0177	.0280	.0000	.0182	-.0168	-.0168
100.000	-.1303	-.0381	.0289	.0897	.0681	.0329			
110.000	-.0978	.0142	.1115	.1906	.1654	.0124			
120.000						.0129			
130.000						.1162			
140.000						-.0665			
150.000						.0503			
160.000						.2366			
170.000						.3595			
180.000	-.0887	.0637	.1191	.1901	.2714	.1150			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .649 ALPHA (3) = .087

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
60.000	.2029	.1297	-.0834												
70.000	.2480	.1611	-.0144												
80.000	.2242	.1562	.0200												
90.000			.0335	-.2394	-.6238	-.2890	-.2087	.0000	-.1190	-.1253	-.0969	-.0729	-.0382	-.0587	-.0623
100.000						-.3110	-.2680	-.2050	-.1393	-.1111	-.0827	-.0827	-.0589	-.0906	-.0562
110.000						-.3939	-.3291	-.2864	-.1749	-.1442	-.1131	-.0872	-.0740	-.1033	-.0684
120.000						-.5626								-.1523	
130.000						-.9091								-.1519	
140.000						-1.0460								-.1626	
150.000						-.7749								-.1587	
160.000						-.7293								-.1726	
170.000						-.7776								-.1499	
180.000						-.7669	-.3839	-.4809	-.3566	-.2778	-.1837	-.1682	-.1304	-.1394	-.1275

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5300	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0294	-.0198	-.0193	-.0027	.0061	-.0110	.0058	.0000	-.0257	-.0798	-.1250	-.2021	-.2654	-.2778	.0000
100.000	-.0496	-.0522	-.0547	-.0271	-.0154	-.0227	-.0317	-.0349	-.0342	-.1178	-.1297	-.1977	-.2599	-.2371	-.2351
110.000	-.0700	-.0652	-.0579	-.0586	-.0539	-.0632	-.0543	-.0649	-.0811	-.1106	-.1456	-.2068	-.2242	-.2406	-.2156
120.000						-.1364								-.2257	
130.000						-.1599								-.1835	
140.000						-.1649								-.1602	
150.000						-.1299								-.1441	
160.000						-.1329								-.1166	
170.000						-.1255								-.1190	
180.000	-.1325	-.1339	-.1296	-.1281	-.1257	-.1178	-.1346	-.1453	-.1493	-.1545	-.1404	-.1451	-.1210	-.0930	-.0531

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0546		
70.000							.0350	.0159	.0000
80.000							.0134	-.0222	-.0037
90.000	-.2622	-.1499	-.0440	.0006	.0251	.0000	.0110	-.0182	-.0180
100.000	-.1932	-.0900	-.0006	.0783	.0656	.0365			
110.000	-.1659	-.0299	.0913	.1862	.1591	.0154			
120.000						.0171			
130.000						.0895			
140.000						-.1187			
150.000						.0164			
160.000						.1993			
170.000						.3175			
180.000	-.1595	.0425	.1075	.1781	.2390	.0924			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .850 ALPHA (6) = 2.317

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1250	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1876	.1168	-.0586												
70.000	.2229	.1479	-.0033												
80.000	.1749	.1567	.0217												
90.000			.0366	-.2297	-.6171	-.2932	-.2010	.0000	-.1344	-.1618	-.1187	-.1089	-.0673	-.0793	-.0712
100.000						-.3282	-.2654	-.2333	-.1733	-.1376	-.1093	-.1268	-.0905	-.1158	-.0671
110.000						-.4195	-.3322	-.3302	-.2137	-.1782	-.1454	-.1253	-.1092	-.1085	-.0963
120.000						-.6056								-.1290	
130.000						-.9097								-.2015	
140.000						-.9033								-.2008	
150.000						-.7349								-.1799	
160.000						-.7302								-.1774	
170.000						-.7642								-.1723	
180.000						-.7692	-.6490	-.5383	-.4027	-.3122	-.2306	-.1906	-.1538	-.1475	-.1287

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5990	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0413	-.0336	-.0397	-.0241	-.0127	-.0324	-.0192	.0000	-.0598	-.1155	-.1602	-.2412	-.3244	-.3559	.0000
100.000	-.0625	-.0875	-.0809	-.0514	-.0380	-.0646	-.0541	-.0839	-.0655	-.1596	-.1711	-.2496	-.3155	-.3189	-.3261
110.000	-.0873	-.0885	-.0875	-.0970	-.0856	-.1077	-.0873	-.0975	-.1163	-.1616	-.2045	-.2635	-.2912	-.3209	-.2949
120.000						-.2025								-.3128	
130.000						-.2074								-.2511	
140.000						-.1943								-.2172	
150.000						-.1497								-.1662	
160.000						-.1475								-.1565	
170.000						-.1294								-.1411	
180.000	-.1255	-.1287	-.1285	-.1299	-.1294	-.1264	-.1376	-.1398	-.1472	-.1457	-.1612	-.1624	-.1394	-.1275	-.1200

X/L	.7290	.7470	.7670	.7850	.8030	.8210	.8620	.9000	.9400
PHI									
60.000							.0509		
70.000							.0176	.0125	.0000
80.000							.0073	-.0248	-.0138
90.000	-.4088	-.1934	-.0656	.0040	.0253	.0000	.0000	-.0496	-.0352
100.000	-.3268	-.1489	-.0178	.0699	.0972	.1313			
110.000	-.2659	-.0788	.0657	.1810	.1602	.0329			
120.000						.0252			
130.000						.0700			
140.000						-.1793			
150.000						-.1315			
160.000						.1644			
170.000						.2933			
180.000	-.2487	.0305	.0909	.1379	.1933	.0452			

AMES 66-63G PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .851 ALPHA (7) = 4.416

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1711	.1128	-.0387												
70.000	.1901	.1432	-.0030												
80.000	.1409	.1473	.0164												
90.000			.0492	-.2001	-.5932	-.2900	-.2000	.0000	-.1551	-.1699	-.1440	-.1237	-.0803	-.1054	-.0976
100.000						-.3106	-.2677	-.2489	-.1917	-.1565	-.1340	-.1340	-.1144	-.1531	-.0998
110.000						-.3705	-.3366	-.3413	-.2459	-.2071	-.1809	-.1621	-.1496	-.1387	-.1280
120.000						-.5064								-.1387	
130.000						-.8769								-.2433	
140.000						-.7800								-.2377	
150.000						-.6813								-.2229	
160.000						-.7204								-.2105	
170.000						-.7492								-.1801	
180.000						-.7659	-.6507	-.5771	-.4547	-.3525	-.2777	-.2406	-.1689	-.1616	-.1273

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0533	-.0518	-.0465	-.0268	-.0290	-.0477	-.0347	.0000	-.0863	-.1486	-.1912	-.2859	-.3749	-.4001	.0000
100.000	-.1003	-.0825	-.0905	-.0591	-.0538	-.0803	-.0863	-.0989	-.1004	-.2001	-.2040	-.2918	-.3610	-.3670	-.4122
110.000	-.1229	-.1221	-.1175	-.1129	-.1168	-.1316	-.1318	-.1449	-.1580	-.2003	-.2505	-.3158	-.3403	-.3885	-.3665
120.000						-.2353								-.3613	
130.000						-.2376								-.2965	
140.000						-.2169								-.2418	
150.000						-.1583								-.2028	
160.000						-.1501								-.1729	
170.000						-.1343								-.1360	
180.000	-.1216	-.1190	-.1136	-.1187	-.1221	-.1254	-.1340	-.1449	-.1578	-.1627	-.1457	-.1548	-.1378	-.1234	-.0882

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0553		
70.000							.0159	.0093	.0000
80.000							.0105	-.0327	.0000
90.000	-.5011	-.3076	-.1138	-.0182	.0151	.0000	.0059	-.0317	-.0307
100.000	-.4441	-.2051	-.0612	.0474	.0606	.0354			
110.000	-.3842	-.1440	.0442	.1582	.1634	.0335			
120.000						.0354			
130.000						.0550			
140.000						-.2294			
150.000						-.0732			
160.000						.1242			
170.000						.2093			
180.000	-.3817	.0122	.0543	.0931	.1352	.0059			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .849 ALPHA (8) = 6.524

SECTION (1)OSB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1477	.1138	-.0366												
70.000	.1698	.1300	.0011												
80.000	.0949	.1266	.0208												
90.000			.0419	-.1825	-.5304	-.2708	-.2047	.0000	-.1728	-.2123	-.1692	-.1479	-.1003	-.1469	-.1103
100.000						-.2972	-.2581	-.2478	-.2201	-.1944	-.1648	-.1866	-.1391	-.1732	-.1203
110.000						-.3654	-.3318	-.3352	-.3225	-.2620	-.2336	-.2032	-.1895	-.1688	-.1698
120.000						-.4792								-.1635	
130.000						-.7738								-.3022	
140.000						-.6571								-.2803	
150.000						-.6375								-.2383	
160.000						-.7145								-.2222	
170.000						-.7278								-.2132	
180.000						-.7248	-.7138	-.6472	-.5495	-.4552	-.3612	-.2834	-.2171	-.1895	-.1491

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0718	-.0740	-.0633	-.0482	-.0448	-.0650	-.0527	.0000	-.1092	-.1801	-.2306	-.3193	-.4093	-.4554	.0000
100.000	-.1166	-.1199	-.1106	-.0857	-.0743	-.1033	-.1003	-.1226	-.1275	-.2333	-.2333	-.3384	-.4026	-.4197	-.4842
110.000	-.1703	-.1472	-.1479	-.1572	-.1394	-.1608	-.1615	-.1751	-.1999	-.2420	-.3030	-.3607	-.3969	-.4509	-.4679
120.000						-.2978								-.4343	
130.000						-.2762								-.3315	
140.000						-.2296								-.2601	
150.000						-.1640								-.2177	
160.000						-.1503								-.1793	
170.000						-.1354								-.1498	
180.000	-.1194	-.1218	-.1106	-.1208	-.1116	-.1283	-.1382	-.1397	-.1488	-.1622	-.1716	-.1677	-.1568	-.1511	-.1079

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0192		
70.000							-.0204	-.0322	.0000
80.000							-.0223	-.0639	-.0351
90.000	-.5607	-.3960	-.1244	-.0289	-.0043	.0000	-.0327	-.0868	-.0529
100.000	-.4696	-.2532	-.0572	.0494	.0534	.0118			
110.000	-.4512	-.1749	.0291	.1512	.1499	.0310			
120.000						.0268			
130.000						.0283			
140.000						-.2944			
150.000						-.1257			
160.000						.0471			
170.000						.1040			
180.000	-.4512	-.0363	.0146	.0394	.0770	.0072			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = .851 ALPHA (9) = 8.732

SECTION (1) SUB. FUSELAGE DEPENDENT VARIABLE CP

Y/-	.0870	.1260	.1640	.2030	.2420	.2810	.3200	.3590	.3980	.4370	.4760	.5150	.5540	.5930	.6320
PHI															
65.000	.1181	.0643	-.0213												
75.000	.1188	.1793	.0038												
85.000	.0450	.1544	.0288												
95.000			.0442	-.1846	-.4923	-.2586	-.1958	.0000	-.1873	-.2447	-.2036	-.1672	-.1300	-.1448	-.1402
105.000						-.2897	-.2494	-.2454	-.2342	-.2371	-.1919	-.1931	-.1723	-.2068	-.1536
115.000						-.3427	-.3254	-.3288	-.3466	-.3002	-.2569	-.2467	-.2234	-.1891	-.2148
125.000						-.4608								-.1759	
135.000						-.7795								-.3491	
145.000						-.6581								-.3141	
155.000						-.6362								-.2684	
165.000						-.6814								-.2557	
175.000						-.7122								-.2238	
185.000						-.7133	-.7125	-.6797	-.6155	-.5255	-.4009	-.3335	-.2543	-.2261	-.1565

Y/L	.4500	.4685	.4865	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7150
PHI															
90.000	-.1058	-.0830	-.0818	-.0791	-.0538	-.1755	-.0733	.0000	-.1315	-.2114	-.2556	-.3545	-.4518	-.4889	.0000
100.000	-.1439	-.1443	-.1285	-.1059	-.0963	-.1914	-.1351	-.1503	-.1619	-.2699	-.2763	-.3735	-.4484	-.4622	-.5272
110.000	-.2588	-.1879	-.1879	-.1810	-.1631	-.1998	-.1941	-.2138	-.2442	-.3006	-.3416	-.4279	-.4532	-.5078	-.5267
120.000						-.3292								-.4776	
130.000						-.2897								-.3399	
140.000						-.2257								-.2478	
150.000						-.1748								-.2141	
160.000						-.1548								-.1876	
170.000						-.1399								-.1864	
180.000	-.1429	-.1324	-.1250	-.1217	-.1193	-.1311	-.1412	-.1575	-.1723	-.1800	-.1958	-.1938	-.1948	-.1741	-.1548

Y/-	.7230	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
65.000							-.0296		
75.000							-.0341	-.0939	.0000
85.000							-.0863	-.1253	-.0737
95.000	-.0585	.3802	-.1285	-.0539	-.0578	.0000	-.1983	-.1452	-.0990
105.000	-.5415	-.2619	-.0801	.0249	.0478	-.0008			
115.000	-.4624	-.1484	-.0547	.1235	.1545	.0349			
125.000						.0405			
135.000						-.0252			
145.000						-.3588			
155.000						-.1812			
165.000						-.2438			
175.000						-.2062			
185.000	-.4884	-.3792	-.0518	-.0136	.0048	.0518			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .950 ALPHA (1) = -8.357

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3127	.2165	-.0077												
70.000	.3883	.2586	.0515												
80.000	.4113	.2825	.0720												
90.000			.0748	-.1855	-.5423	-.5293	-.5007	.0000	-.4059	-.4077	-.3305	-.2601	-.1634	-.1973	-.0752
100.000						-.5267	-.5315	-.4937	-.4478	-.3941	-.3095	-.2633	-.1874	-.1364	-.0110
110.000						-.6138	-.5642	-.5700	-.5037	-.4040	-.3264	-.2361	-.1892	-.3394	-.0487
120.000						-.4606								-.4027	
130.000						-.6386								-.1867	
140.000						-.7217								-.2439	
150.000						-.6727								-.2903	
160.000						-.6739								-.3097	
170.000						-.6844								-.3611	
180.000						-.5890	-.5315	-.4655	-.4497	-.4404	-.4121	-.3879	-.3821	-.3934	-.3713

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0492	.0033	.0033	.0789	.1139	.1167	.1559	.0000	.1613	.1434	.1199	.0868	.0536	.0490	.0000
100.000	-.0545	-.0852	.0309	.0631	.0944	.1123	.1329	.1418	.1504	.1257	.1232	.0840	.0645	.0703	.0681
110.000	-.0763	.0179	-.0377	.0399	.0798	.0930	.1179	.1348	.1348	.1285	.1037	.0838	.0810	.0749	.0809
120.000						.0392								.0749	
130.000						.0176								.0828	
140.000						.0148								.0715	
150.000						.0125								.0726	
160.000						-.0026								.0659	
170.000						-.0193								.0520	
180.000	-.2801	-.2030	-.3343	-.3046	-.0484	-.0353	-.0286	-.0226	-.0070	-.0015	.0088	.0093	.0309	.0657	.1048

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0955		
70.000							.0719	.0369	.0000
80.000							.0591	.0012	.0093
90.000	.0558	.1373	.1324	.1491	.1401	.0000	.0603	.0077	.0086
100.000	.0739	.1401	.1721	.2001	.1681	.0951			
110.000	.1273	.1811	.2470	.2688	.2259	.0666			
120.000						.0742			
130.000						.2578			
140.000						.1572			
150.000						.2500			
160.000						.3872			
170.000						.5256			
180.000	.1217	.1983	.2787	.3596	.4181	.2683			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .952 ALPHA (2) = -6.237

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2998	.2082	-.0077												
70.000	.3726	.2442	.0510												
80.000	.3619	.2581	.0705												
90.000			.0844	-.1856	-.5397	-.5318	-.4953	.0000	-.4087	-.4360	-.3604	-.3214	-.2329	-.2449	-.0502
100.000						-.5358	-.5337	-.4888	-.4490	-.4272	-.3587	-.3117	-.2451	-.2246	-.1188
110.000						-.6043	-.5606	-.5666	-.5224	-.4453	-.3624	-.3041	-.2423	-.2810	-.1493
120.000						-.4797								-.3451	
130.000						-.6798								-.2856	
140.000						-.7880								-.3098	
150.000						-.7340								-.3400	
160.000						-.7305								-.3773	
170.000						-.7451								-.4110	
180.000						-.6536	-.5870	-.5184	-.4976	-.4849	-.4497	-.4432	-.4001	-.3881	-.3621

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0460	-.0048	.0318	.0501	.0802	.1154	.1344	.0000	.1217	.0990	.0756	.0306	-.0146	-.0238	.0000
100.000	-.0391	.0003	.0343	.0431	.0827	.0922	.1045	.1105	.1251	.0788	.0737	.0327	-.0025	.0056	.0000
110.000	-.0481	-.0591	.0148	.0461	.0482	.0640	.0973	.0952	.0955	.0846	.0582	.0292	.0186	.0067	.0187
120.000						.0225								.0102	
130.000						-.0160								.0213	
140.000						-.0250								.0216	
150.000						-.0118								.0264	
160.000						-.0225								.0250	
170.000						-.0332								.0225	
180.000	-.2830	-.2093	-.0932	-.0893	-.0669	-.0416	-.0409	-.0388	-.0320	-.0306	-.0204	-.0134	.0054	.0304	.0780

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0681		
70.000							.0398	.0121	.0000
80.000							.0236	-.0206	.0023
90.000	-.0179	.0995	.0903	.1148	.1083	.0000	.0211	-.0162	-.0025
100.000	.0208	.0659	.1361	.1715	.1405	.0688			
110.000	.0588	.1299	.2135	.2663	.2094	.0477			
120.000						.0690			
130.000						.2265			
140.000						.1010			
150.000						.2006			
160.000						.3486			
170.000						.4822			
180.000	.0537	.1722	.2348	.3107	.3933	.2464			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .954 ALPHA (3) = -4.093

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.1870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2661	.2028	-.0006												
70.000	.3416	.2370	.0480												
80.000	.3472	.2579	.0753												
90.000			.0905	-.1808	-.5280	-.5252	-.4927	.0000	-.4003	-.4350	-.4137	-.3633	-.2828	-.2658	-.0931
100.000						-.5284	-.5286	-.4863	-.4444	-.4419	-.3943	-.3619	-.2904	-.1913	-.1593
110.000						-.5911	-.5454	-.5535	-.5237	-.4747	-.4077	-.3429	-.2088	-.2444	-.1414
120.000						-.4963								-.2945	
130.000						-.7027								-.3369	
140.000						-.8414								-.3530	
150.000						-.7913								-.3677	
160.000						-.7753								-.4050	
170.000						-.7984								-.4344	
180.000						-.7240	-.6467	-.5639	-.5466	-.5295	-.4793	-.4721	-.4208	-.4390	-.3916

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5380	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0724	-.0719	.0005	.0070	.0791	.0770	.1055	.0000	.0939	.0634	.0294	-.0169	-.0730	-.0974	.0000
100.000	-.1402	-.1445	-.0099	.0296	.0640	.0689	.0819	.0921	.0935	.0380	.0361	-.0139	-.0600	-.0660	-.0748
110.000	-.1809	-.0199	-.0422	.0368	.0240	.0409	.0523	.0664	.0696	.0477	.0183	-.0192	-.0431	-.0667	-.0667
120.000						-.0111								-.0635	
130.000						-.0321								-.0410	
140.000						-.0494								-.0329	
150.000						-.0436								-.0190	
160.000						-.0443								-.0083	
170.000						-.0354								-.0109	
180.000	-.3935	-.4025	-.1229	-.0648	-.0602	-.0469	-.0529	-.0415	-.0457	-.0399	-.0329	-.0298	-.0116	.0030	.0544

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0437		
70.000							.0125	-.0012	.0000
80.000							-.0065	-.0359	-.0032
90.000	-.1243	.0135	.0544	.0888	.0867	.0000	-.0164	-.0319	-.0102
100.000	-.0807	.0335	.1029	.1579	.1260	.0638			
110.000	-.0238	.0839	.1845	.2529	.2110	.0476			
120.000						.0616			
130.000						.2131			
140.000						.0603			
150.000						.1643			
160.000						.3187			
170.000						.4486			
180.000	-.0238	.1940	.2190	.2862	.3721	.2295			

DATE 24 MAR 74 TABULATE SOURCE DATA - [A29/CA67]

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .950 ALPHA (4) = -2.006

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2470	.2840	.2820	.3010	. 90	.3380	.3570	.3750	.3940	.4030	.4310
PHI															
80.000	.2857	.1940	.0036												
90.000	.3208	.2283	.0512												
100.000	.3143	.2230	.0779												
110.000			.0934	-.1711	-.5251	-.5253	-.4702	.0000	-.3865	-.4262	-.4190	-.3837	-.2970	-.3028	-.1431
120.000						-.5290	-.5150	-.4681	-.4320	-.4336	-.4150	-.3798	-.2984	-.3157	-.0885
130.000						-.5844	-.5419	-.5424	-.5125	-.5016	-.4378	-.3739	-.3370	-.2054	-.0799
140.000						-.5190								-.2530	
150.000						-.7389								-.3423	
160.000						-.9027								-.2924	
170.000						-.8547								-.3633	
180.000						-.8305								-.3593	
						-.8563								-.3330	
						-.7862	-.6987	-.6254	-.5894	-.5676	-.5229	-.4855	-.4468	-.3956	-.4032

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5850	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0829	-.0189	.0068	.0426	.0590	.0655	.0857	.0000	.0711	.0284	.0010	-.0618	-.1265	-.1573	.0000
100.000	-.1099	-.0478	-.0192	.0265	.0593	.0421	.0602	.0685	.0604	-.0085	.0045	-.0620	-.1164	-.1282	-.1601
110.000	-.1976	-.0418	-.0344	.0145	.0212	.0224	.0414	.0414	.0226	.0054	-.0282	-.0726	-.1012	-.1359	-.1542
120.000						-.0407								-.1329	
130.000						-.0533								-.1054	
140.000						-.0618								-.0838	
150.000						-.0510								-.0723	
160.000						-.0468								-.0519	
170.000						-.0472								-.0390	
180.000	-.1851	-.2232	-.0852	-.0704	-.0494	-.0491	-.0505	-.0524	-.0557	-.0569	-.0524	-.0543	-.0404	-.0222	.0274

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0224		
90.000							-.0069	-.0050	.0000
100.000							-.0357	-.0352	.0001
110.000	-.2485	-.0748	-.0080	.0457	.0562	.0000	-.0443	-.0406	-.0115
120.000	-.1892	-.0571	.0483	.1158	.0988	.0328			
130.000	-.1449	.0128	.1301	.2169	.1913	.0228			
140.000						.0581			
150.000						.1762			
160.000						-.0015			
170.000						.1101			
180.000						.2797			
						.5837			
						.2057			
	-.1403	.1253	.1805	.2914	.3337				

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .934 ALPHA (5) = .212

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2583	.1970	.0271												
70.000	.3070	.2278	.0729												
80.000	.2846	.2185	.1016												
90.000			.1205	-.1431	-.4975	-.4956	-.4385	.0000	-.3364	-.3916	-.3941	-.3964	-.3396	-.3563	-.2295
100.000						-.4959	-.4911	-.4364	-.3960	-.4022	-.4061	-.4043	-.3421	-.3687	-.2509
110.000						-.5517	-.5228	-.5071	-.4835	-.4784	-.4569	-.4092	-.3740	-.2787	-.2656
120.000						-.5053								-.2596	
130.000						-.7341								-.4135	
140.000						-.9295								-.4349	
150.000						-.8916								-.4363	
160.000						-.8530								-.4595	
170.000						-.8824								-.4466	
180.000						-.8357	-.7369	-.6727	-.6392	-.6172	-.5479	-.4941	-.4418	-.4312	-.4050

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1712	-.0389	.0124	.0006	.0519	.0544	.0767	.0000	.0360	.0125	-.0227	-.0992	-.1693	-.2038	.0000
100.000	-.2470	-.0462	-.0680	-.0216	.0184	.0387	.0467	.0504	.0525	-.0196	-.0236	-.0990	-.1660	-.1747	-.2266
110.000	-.2488	-.1822	-.0384	-.0366	-.0038	-.0001	.0158	.0167	0058	-.0170	-.0633	-.1177	-.1459	-.1880	-.2236
120.000						-.0749								-.2059	
130.000						-.0942								-.1669	
140.000						-.0774								-.1452	
150.000						-.0513								-.1179	
160.000						-.0405								-.0826	
170.000						-.0349								-.0644	
180.000	-.2768	-.1679	-.0092	-.0570	-.0485	-.0359	-.0326	-.0387	-.0461	-.0475	-.0586	-.0640	-.0534	-.0355	.0141

X/L	.7790	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0126		
70.000							-.0366	-.0033	.0600
80.000							-.0494	-.0387	.0025
90.000	-.2973	-.2727	-.0896	.0167	.0342	.0000	-.0626	-.0438	-.0052
100.000	-.2567	-.1918	-.0161	.0954	.0641	.0163			
110.000	-.2400	-.0933	.0912	.2074	.1706	.0126			
120.000						.0489			
130.000						.1503			
140.000						-.0566			
150.000						.0607			
160.000						.2436			
170.000						.3390			
180.000	-.2486	.1229	.1790	.2272	.2991	.1785			

AMES 66-635 PRESSURE VENTING - INTEG. VEHICLE (FEB020)

MACH (6) .947 ALPHA (6) = 2.439

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
85.000	.2183	.1575	.0092												
90.000	.2345	.1935	.0311												
95.000	.2214	.2058	.0758												
99.000			.0944	-.1529	-.3075	-.4840	-.3614	.0000	-.3047	-.3719	-.3840	-.3775	-.3116	-.2879	-.3049
100.000						-.4875	-.4328	-.3765	-.3482	-.3775	-.3933	-.4017	-.3750	-.3608	-.3010
110.000						-.5512	-.4928	-.4570	-.4323	-.4628	-.4668	-.4533	-.3861	-.3280	-.2922
120.000						-.5344								-.3088	
130.000						-.7916								-.3627	
140.000						-.9994								-.4200	
150.000						-.9587								-.2966	
160.000						-.9178								-.3350	
170.000						-.9489								-.2655	
180.000						-.6996	-.7979	-.7058	-.6553	-.6342	-.4663	-.4642	-.2868	-.2496	-.1592

Y/L	.4510	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1288	-.0691	.0176	.0543	.0332	.0583	.0526	.0000	.0143	-.0352	-.0568	-.1321	-.2088	-.2520	.0000
100.000	-.0741	-.0617	-.0125	.0262	.0313	.0274	.0158	.0131	.0017	-.0769	-.0681	-.1382	-.1998	-.2211	-.2968
110.000	-.1449	-.0466	-.0499	-.0235	-.0152	-.0211	-.0271	-.0341	-.0560	-.0809	-.1116	-.1693	-.1977	-.2496	-.3126
120.000						-.1166								-.2413	
130.000						-.1535								-.2356	
140.000						-.1349								-.2462	
150.000						-.1229								-.1703	
160.000						-.0643								-.1365	
170.000						-.0615								-.1134	
180.000	-.1258	-.0959	-.0462	-.0520	-.0317	-.0546	-.0647	-.0720	-.0779	-.0931	-.0803	-.0911	-.0897	-.0774	-.0334

Y/L	.7290	.7470	.7670	.7850	.8030	.8220	.8420	.9000	.9490
PHI									
80.000							.0492		
85.000							-.0481	-.0122	.0000
90.000							-.0638	-.0329	-.0168
95.000	-.3878	-.3833	-.2709	-.0848	-.0295	.0000	-.0899	-.0533	-.0159
100.000	-.3287	-.3559	-.1516	.0204	.0303	-.0120			
110.000	-.3204	-.2781	-.0025	.1407	.1211	.0922			
120.000						.0394			
130.000						.1242			
140.000						-.1191			
150.000						.0055			
160.000						.2037			
170.000						.2715			
180.000	-.3295	.0781	.1258	.1707	.2325	.1395			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (RE8020)

MACH (4) = .951 ALPHA (7) = 4.513

SECTION (1:ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1250	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.410
PHI															
60.000	.1921	.1413	.0000												
70.000	.2187	.1885	.0849												
80.000	.1844	.1909	.0811												
90.000			.1089	-.1224	-.4658	-.4220	-.3203	.0000	-.2819	-.3581	-.3537	-.3830	-.2996	-.3634	-.3406
100.000						-.4186	-.3814	-.3416	-.3263	-.3578	-.3787	-.4143	-.3795	-.4048	-.3339
110.000						-.4959	-.4453	-.4173	-.4173	-.4571	-.4745	-.4601	-.4414	-.3537	-.3836
120.000						-.5077								-.3178	
130.000						-.7629								-.5544	
140.000						-1.0010								-.5482	
150.000						-.9737								-.5022	
160.000						-.9325								-.5096	
170.000						-.9496								-.4221	
180.000						-.9205	-.8427	-.7460	-.7004	-.6601	-.5606	-.5501	-.5022	-.3880	-.2216

X/L	.4300	.4600	.4860	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2536	-.0220	.0021	.0146	.0338	.0331	.0653	.0000	.0253	-.0302	-.0830	-.1693	-.2513	-.2880	.0000
100.000	-.3176	-.2942	-.0504	-.0113	.0107	.0023	.0257	.0118	.0049	-.0768	-.0942	-.1771	-.2499	-.2662	-.3327
110.000	-.3879	-.2649	-.0757	-.0460	-.0425	-.0522	-.0318	-.0370	-.0594	-.0920	-.1546	-.2152	-.2515	-.2397	-.3403
120.000						-.1643								-.3465	
130.000						-.1444								-.2948	
140.000						-.1072								-.2571	
150.000						-.0716								-.2066	
160.000						-.0541								-.1658	
170.000						-.0412								-.1279	
180.000	-.1160	-.0806	-.0587	-.0437	-.0363	-.0248	-.0327	-.0327	-.0489	-.0625	-.0881	-.1066	-.1068	-.0975	-.0350

X/L	.7290	.7471	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0095		
70.000							-.0708	-.0619	.0000
80.000							-.0882	-.0973	-.0440
90.000	-.3808	-.3710	-.4333	-.1730	-.0559	.0000	-.1131	-.1073	-.0496
100.000	-.3568	-.3782	-.3167	-.0317	.0049	-.0475			
110.000	-.3408	-.3675	-.0647	.1155	.0729	-.0130			
120.000						.0287			
130.000						.0923			
140.000						-.1749			
150.000						-.0594			
160.000						.1229			
170.000						.1863			
180.000	-.3378	.0778	.1162	.1516	.1618	.0968			

AMES 66-65 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (4) = .949 ALPHA (8) = 6.656

SECTION (1)CAB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1250	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.1578	.1143	-.0138												
85.000	.1788	.1469	.0335												
90.000	.1164	.1504	.0641												
95.000			.1062	-.1152	-.4574	-.4139	-.2843	.0000	-.2319	-.3089	-.3166	-.3367	-.2916	-.3024	-.3324
100.000						-.4151	-.3581	-.2931	-.2832	-.3156	-.3384	-.3831	-.3691	-.4241	-.3933
105.000						-.4752	-.4286	-.3950	-.3794	-.4135	-.4302	-.4548	-.4599	-.4026	-.4475
110.000						-.5184								-.3772	
115.000						-.7803								-.6388	
120.000						-1.0330								-.5774	
125.000						-1.0260								-.5257	
130.000						-.9822								-.3264	
135.000						-.9918								-.3317	
140.000						-.9595	-.8774	-.7886	-.7276	-.6613	-.5882	-.4407	-.3059	-.2920	-.1775
145.000															

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6840	.7100
PHI															
80.000	-.2978	-.3096	-.2732	-.0478	.0346	.0351	.0399	.0000	-.0074	-.0718	-.1117	-.1939	-.2855	-.3228	.0000
85.000	-.3435	-.3539	-.3161	-.0596	.0991	-.0757	-.0879	-.0221	-.0251	-.1265	-.1514	-.2173	-.2825	-.3448	-.3354
90.000	-.4346	-.179	-.3513	-.0744	-.0474	-.0677	-.0683	-.0814	-.1007	-.1486	-.2001	-.2700	-.2975	-.3465	-.4017
95.000						-.2065								-.4240	
100.000						-.1725								-.3331	
105.000						-.1462								-.2773	
110.000						-.0875								-.2170	
115.000						-.0725								-.1748	
120.000						-.0465								-.1651	
125.000	-.1442	-.0776	-.0778	-.0451	-.0568	-.0315	-.0427	-.0547	-.0760	-.0958	-.1152	-.1385	-.1356	-.1241	-.0995

X/L	.7290	.7470	.7670	.7850	.8050	.8290	.8620	.9000	.9400
PHI									
80.000							-.0424		
85.000							-.0876	-.1074	.0000
90.000							-.1128	-.2326	-.0781
95.000	-.4334	-.4118	-.3029	-.2777	-.1226	.0000	-.1242	-.2240	-.0758
100.000	-.3915	-.4330	-.4411	-.1086	-.0463	-.0659			
105.000	-.4020	-.4293	-.1653	.0297	.0254	-.0266			
110.000						.0165			
115.000						.0639			
120.000						-.2269			
125.000						-.1005			
130.000						.0321			
135.000						.0566			
140.000	-.4001	.0218	.0690	.0994	.1139	.1623			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (PEB026)

MACH (4) = .949 ALPHA (9) = 8.854

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1308	.0929	-.0205												
70.000	.1336	.1223	.0260												
80.000	.0436	.1210	.0741												
90.000			.1062	-.1125	-.4360	-.3939	-.2523	.0000	-.2070	-.2945	-.3127	-.3312	-.2963	-.2963	-.3338
100.000						-.3828	-.3115	-.2469	-.2597	-.3071	-.3277	-.3898	-.3660	-.4194	-.3614
110.000						-.4501	-.3837	-.3521	-.3584	-.4179	-.4439	-.4538	-.4589	-.3857	-.4598
120.000						-.5163								-.3559	
130.000						-.7970								-.7138	
140.000						-1.0590								-.6235	
150.000						-1.0500								-.4434	
160.000						-1.0080								-.3492	
170.000						-1.0170								-.2545	
180.000						-.9933	-.8942	-.7806	-.6715	-.5709	-.4002	-.3690	-.3058	-.2529	-.1647

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.3048	-.2816	-.0866	.0025	.0141	.0062	.0280	.0000	-.0233	-.0928	-.1437	-.2345	-.3287	-.3776	.0000
100.000	-.3743	-.3587	-.0945	-.0309	-.0124	-.0402	-.0210	-.0421	-.0520	-.1602	-.1700	-.2552	-.3353	-.3576	-.4382
110.000	-.4772	-.4604	-.1028	-.1021	-.0963	-.1190	-.0994	-.1132	-.1454	-.1905	-.2484	-.3144	-.3578	-.4140	-.4569
120.000						-.2654								-.4760	
130.000						-.1780								-.3740	
140.000						-.1839								-.3085	
150.000						-.0900								-.2611	
160.000						-.0853								-.2350	
170.000						-.0618								-.2348	
180.000	-.1428	-.0596	-.0591	-.0437	-.0413	-.0348	-.0506	-.0717	-.0991	-.1299	-.1603	-.1838	-.1967	-.2014	-.1639

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0599		
70.000							-.1021	-.2052	.0000
80.000							-.1119	-.2514	-.2085
90.000	-.4748	-.4564	-.5384	-.4242	-.1427	.0000	-.1063	-.2610	-.2295
100.000	-.4408	-.5009	-.5128	-.1725	-.0870	-.0393			
110.000	-.4492	-.4858	-.2284	-.0115	.0076	.0362			
120.000						.0522			
130.000						.0555			
140.000						-.2671			
150.000						-.1063			
160.000						-.0233			
170.000						-.0498			
180.000	-.4475	-.0532	.0068	.0447	.0769	.2265			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.951 ALPHA (1) = -8.333

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4378	.3473	.1330												
70.000	.5039	.3848	.1933												
80.000	.5229	.3835	.2099												
90.000			.2171	-.0357	-.3501	-.3431	-.3330	.0000	-.2564	-.2809	-.2192	-.1657	-.0956	-.1156	-.0357
100.000						-.3469	-.3574	-.3323	-.2975	-.2632	-.1993	-.1640	-.1067	-.1067	-.0310
110.000						-.4209	-.3857	-.3978	-.3536	-.2715	-.2056	-.1357	-.1034	-.2154	-.0380
120.000						-.2823								-.2569	
130.000						-.4523								-.1296	
140.000						-.5401								-.1511	
150.000						-.4906								-.1695	
160.000						-.4885								-.2015	
170.000						-.5034								-.2287	
180.000						-.4175	-.3651	-.3132	-.2958	-.2907	-.2647	-.2569	-.2444	-.2509	-.2452

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0083	-.0166	-.0204	-.0172	-.0071	.0339	.0983	.0000	.1457	.1331	.1130	.0758	.0375	.0329	.0000
100.000	-.0277	-.0409	-.0396	-.0362	-.0227	.0089	.0632	.1074	.1312	.1046	.1036	.0694	.0380	.0426	.0657
110.000	-.0324	-.0345	-.0320	-.0449	-.0442	-.0172	.0438	.0846	.1029	.0976	.0741	.0509	.0505	.0531	.0782
120.000						-.0734								.0630	
130.000						-.1270								.0815	
140.000						-.1554								.0822	
150.000						-.1520								.0915	
160.000						-.1885								.0983	
170.000						-.2238								.0983	
180.000	-.2537	-.2638	-.2467	-.2535	-.2589	-.2693	-.2857	-.2824	-.2474	-.1481	-.0175	.0384	.0679	.1045	.1656

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1686		
70.000							.1453	.1072	.0000
80.000							.1304	.0813	.1102
90.000	.0693	.2028	.2062	.2325	.2272	.0000	.1208	.0802	.1017
100.000	.1071	.1911	.2504	.2899	.2585	.1861			
110.000	.1450	.2361	.3197	.3698	.3155	.1754			
120.000						.2011			
130.000						.3526			
140.000						.2298			
150.000						.3180			
160.000						.4544			
170.000						.5853			
180.000	.1439	.2812	.3473	.4215	.4948	.3550			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.048 ALPHA (2) = -6.249

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4107	.3241	.1161												
70.000	.4729	.3570	.1775												
80.000	.4806	.3698	.1969												
90.000			.2099	-.0431	-.3602	-.3598	-.3351	.0000	-.2623	-.2966	-.2506	-.2103	-.1524	-.1810	-.0910
100.000						-.3613	-.3675	-.3345	-.3004	-.2883	-.2331	-.2095	-.1581	-.1717	-.0899
110.000						-.4279	-.3863	-.4048	-.3669	-.3043	- 2387	-.1872	-.1526	-.2045	-.0997
120.000						-.3150								-.2378	
130.000						-.5009								-.1823	
140.000						-.6078								-.2030	
150.000						-.5631								-.2196	
160.000						-.5516								-.2503	
170.000						-.5691								-.2795	
180.000						-.4916	-.4286	-.3701	-.3492	-.3379	-.3117	-.3034	-.2971	-.2992	-.2983

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0589	-.0520	-.0510	-.0520	-.0304	.0233	.0706	.0000	.1091	.0925	.0769	.0286	-.0266	-.0540	.0000
100.000	-.0741	-.0804	-.0720	-.0690	-.0501	-.0067	.0363	.0742	.0953	.0582	.0667	.0222	-.0230	-.0322	-.0341
110.000	-.0717	-.0753	-.0701	-.0821	-.0749	-.0425	.0088	.0484	.0601	.0525	.0341	.0011	-.0195	-.0150	-.0268
120.000						-.1205								-.0180	
130.000						-.1735								.0054	
140.000						-.2049								.0137	
150.000						-.2052								.0316	
160.000						-.2387								.0439	
170.000						-.2800								.0488	
180.000	-.2967	-.3094	-.2914	-.2957	-.3050	-.3276	-.3392	-.3224	-.2153	-.1059	-.0120	.0073	.0307	.0678	.1232

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1334		
70.000							.1035	.0656	.0000
80.000							.0880	.0337	.0784
90.000	-.0798	.0501	.1340	.1834	.1885	.0000	.0795	.0346	.0699
100.000	-.0270	.0797	.1841	.2428	.2218	.1598			
110.000	.0093	.1406	.2622	.3291	.2922	.1572			
120.000						.1908			
130.000						.3269			
140.000						.1768			
150.000						.2671			
160.000						.4157			
170.000						.5345			
180.000	-.0001	.2426	.3112	.3780	.4630	.3314			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.044 ALPHA (5) = -4.069

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3879	.3142	.1213												
70.000	.4457	.3450	.1718												
80.000	.4425	.3659	.1968												
90.000			.2152	-.0469	-.3621	-.3656	-.3351	.0000	-.2583	-.2982	-.2773	-.2450	-.2013	-.2294	-.1295
100.000						-.3660	-.3708	-.3328	-.2967	-.2978	-.2642	-.2412	-.2094	-.2196	-.1246
110.000						-.4236	-.3861	-.4009	-.3646	-.3381	-.2773	-.2376	-.2068	-.2156	-.1495
120.000						-.3378								-.2304	
130.000						-.5311								-.2317	
140.000						-.6675								-.2525	
150.000						-.6261								-.2682	
160.000						-.6039								-.2955	
170.000						-.6278								-.3220	
180.000						-.5569	-.4880	-.4239	-.3930	-.3810	-.3509	-.3481	-.3358	-.3421	-.3398

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6820	.7100
PHI															
90.000	-.0800	-.0565	-.0635	-.0595	-.0546	-.0166	.0402	.0000	.0778	.0552	.0410	-.0094	-.0660	-.0958	.0000
100.000	-.0970	-.0886	-.0822	-.0786	-.0690	-.0503	.0065	.0450	.0595	.0191	.0269	-.0192	-.0639	-.1437	-.1193
110.000	-.1073	-.0924	-.0819	-.0922	-.0971	-.0911	-.0277	.0097	.0219	.0099	-.0101	-.0444	-.0645	-.1744	-.1752
120.000						-.1623								-.0813	
130.000						-.2287								-.0683	
140.000						-.2548								-.0591	
150.000						-.2505								-.0425	
160.000						-.2447								-.0267	
170.000						-.3264								-.0167	
180.000	-.3388	-.3498	-.3298	-.3260	-.3352	-.3591	-.3470	-.2276	-.1101	-.0454	-.0222	-.0211	-.0123	.0195	.0804

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9450
PHI									
60.000							.1112		
70.000							.0767	-.0013	.0000
80.000							.0579	-.0401	.0673
90.000	-.1738	-.1195	.0161	.1203	.1385	.0000	.0502	-.0390	.0613
100.000	-.1378	-.0818	.0879	.1910	.1782	.1194			
110.000	-.1277	.0097	.1942	.2809	.2489	.1260			
120.000						.1672			
130.000						.2980			
140.000						.1245			
150.000						.2197			
160.000						.3777			
170.000						.4816			
180.000	-.1286	.2094	.2726	.3384	.4174	.3102			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = 1.046 ALPHA (4) = -1.940

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3745	.3061	.1313												
70.000	.4238	.3359	.1761												
80.000	.4091	.3302	.2013												
90.000			.2182	-.0359	-.3532	-.3579	-.3135	.0000	-.2440	-.2922	-.2730	-.2581	-.2125	-.2418	-.1525
100.000						-.3605	-.3557	-.3169	-.2854	-.2956	-.2788	-.2624	-.2265	-.2403	-.1515
110.000						-.4095	-.3764	-.3862	-.3598	-.3521	-.3018	-.2579	-.2301	-.2274	-.1583
120.000						-.3496								-.2290	
130.000						-.5476								-.2736	
140.000						-.7080								-.2899	
150.000						-.6675								-.2979	
160.000						-.6398								-.3215	
170.000						-.6641								-.3454	
180.000						-.6145	-.5306	-.4683	-.4404	-.4208	-.3813	-.3738	-.3619	-.3[illegible]9	-.3605

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1023	-.0803	-.0888	-.0915	-.0833	-.0582	.0233	.0000	.0585	.0304	.0144	-.0404	-.0920	-.1295	.0000
100.000	-.1262	-.1098	-.1134	-.1111	-.1005	-.0865	-.0149	.0184	.0385	-.0108	.0016	-.0476	-.0771	-.0891	-.1417
110.000	-.1282	-.1142	-.1145	-.1361	-.1321	-.1238	-.0567	-.0203	-.0084	-.0269	-.0435	-.0723	-.0609	-.0866	-.1411
120.000						-.2129								-.1232	
130.000						-.2733								-.1023	
140.000						-.2968								-.0915	
150.000						-.2882								-.0734	
160.000						-.3166								-.0553	
170.000						-.3296								-.0426	
180.000	-.3596	-.3749	-.3548	-.3537	-.3556	-.3013	-.2208	-.1215	-.0506	-.0289	-.0176	-.0284	-.0310	-.0094	.0502

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0745		
70.000							.0380	-.0494	.0000
80.000							.0218	-.1057	.0519
90.000	-.1973	-.1922	-.1631	.0544	.0968	.0000	.0137	-.1188	.0510
100.000	-.1650	-.1896	-.0223	.1416	.1373	.0858			
110.000	-.1670	-.1524	.1265	.2537	.2193	.1044			
120.000						.1530			
130.000						.2698			
140.000						.0643			
150.000						.1664			
160.000						.3321			
170.000						.4172			
180.0 [illegible]	-.1706	.1625	.2439	.3025	.3735	.2769			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.051 ALPHA (5) = .209

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3555	.3006	.1398												
70.000	.3969	.3255	.1832												
80.000	.3742	.3157	.2049												
90.000			.2287	-.0131	-.3297	-.3360	-.2850	.0000	-.2183	-.2601	-.2629	-.2648	-.2154	-.2538	-.1712
100.000						-.3335	-.3319	-.2858	-.2593	-.2716	-.2748	-.2884	-.2338	-.2555	-.1755
110.000						-.3802	-.3544	-.3621	-.3338	-.3461	-.3264	-.2796	-.2496	-.2323	-.1922
120.000						-.3409								-.2245	
130.000						-.5474								-.3081	
140.000						-.7329								-.3185	
150.000						-.6955								-.3202	
160.000						-.6571								-.3385	
170.000						-.6238								-.3586	
180.000						-.6428	-.5683	-.4986	-.4738	-.4578	-.4158	-.3873	-.3734	-.3723	-.3687

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6860	.7100
PHI															
90.000	-.1132	-.1060	-.1121	-.1132	-.1073	-.0705	.0151	.0000	.0470	.0134	-.0008	-.0354	-.0897	-.1286	.0000
100.000	-.1389	-.1405	-.1356	-.1331	-.1274	-.1075	-.0253	.0047	.0256	-.0304	-.0122	-.0277	-.0822	-.1033	-.1643
110.000	-.1635	-.1436	-.1447	-.1673	-.1673	-.1552	-.0837	-.0362	-.0296	-.0526	-.0503	-.0425	-.0814	-.1245	-.1699
120.000						-.2704								-.1694	
130.000						-.3144								-.1415	
140.000						-.3266								-.1271	
150.000						-.3047								-.1048	
160.000						-.2770								-.0820	
170.000						-.2285								-.0629	
180.000	-.3735	-.3861	-.3578	-.3114	-.2335	-.1803	-.1305	-.0500	-.0068	-.0010	-.0152	-.0238	-.0343	-.0227	.0274

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							.0465		
70.000							.0075	-.0806	.0000
80.000							-.0125	-.1433	-.0081
90.000	-.2163	-.2025	-.2613	-.0315	.0591	.0000	-.0204	-.1567	-.0168
100.000	-.1827	-.2159	-.1684	.0871	.1098	.0529			
110.000	-.1878	-.1993	.0387	.2149	.1850	.0867			
120.000						.1419			
130.000						.2428			
140.000						.0145			
150.000						.1149			
160.000						.2912			
170.000						.3560			
180.000	-.1880	.1625	.2096	.2603	.3220	.2407			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.045 ALPHA (6) = 2.430

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1210	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2985	.2507	.1099												
70.000	.3346	.2848	.1554												
80.000	.3034	.3019	.1825												
90.000			.2126	-.0230	-.3325	-.3320	-.2450	.0000	-.1603	-.2235	-.2388	-.2527	-.2379	-.2872	-.2405
100.000						-.3350	-.3046	-.2337	-.2068	-.2284	-.2480	-.2803	-.2729	-.3029	-.2373
110.000						-.3843	-.3488	-.3178	-.2854	-.3106	-.3157	-.3152	-.2940	-.2719	-.2689
120.000						-.3632								-.2549	
130.000						-.5824								-.3759	
140.000						-.7870								-.3765	
150.000						-.7593								-.3627	
160.000						-.7170								-.3719	
170.000						-.7399								-.3844	
180.000						-.7083	-.6218	-.5477	-.5178	-.4365	-.4442	-.4096	-.3920	-.3941	-.3967

X/L	.4500	.4680	.4850	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1857	-.1728	-.1605	-.1384	-.1357	-.0966	.0090	.0030	.0205	-.0223	-.0246	-.0503	-.1131	-.1547	.0000
100.000	-.2197	-.2119	-.1917	-.1697	-.1569	-.1340	-.0385	-.0135	-.0004	-.0700	-.0155	-.0403	-.1093	-.1312	-.2084
110.000	-.2493	-.2229	-.2011	-.2138	-.2111	-.1926	-.0991	-.0650	-.0678	-.0963	-.0412	-.0768	-.1204	-.1649	-.2172
120.000						-.3187								-.2151	
130.000						-.3615								-.1731	
140.000						-.3553								-.1422	
150.000						-.2696								-.1100	
160.000						-.1902								-.0721	
170.000						-.1380								-.0403	
180.000	-.3975	-.3994	-.3247	-.2425	-.1869	-.0968	-.0493	-.0130	-.0076	-.0126	-.0151	-.0272	-.0300	-.0050	.0152

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0224		
70.000							-.0184	-.1001	.0000
80.000							-.0386	-.1575	-.1404
90.000	-.2545	-.2151	-.3210	-.1405	-.0286	.0000	-.0472	-.1740	-.1535
100.000	-.2185	-.2562	-.2757	.0126	.0440	.0147			
110.000	-.2241	-.2481	-.0651	.1560	.1398	.0508			
120.000						.1206			
130.000						.2066			
140.000						-.0564			
150.000						.0497			
160.000						.2294			
170.000						.2849			
180.000	-.2243	.1347	.1659	.1844	.2307	.1524			

AMES 66-610 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.051 ALPHA (7) = 4.508

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.2611	.2073	.0691												
70.000	.2916	.2458	.1300												
80.000	.2426	.2667	.1577												
90.000			.1958	-.0366	-.3254	-.3158	-.1776	.0000	-.1183	-.1888	-.2037	-.2233	-.2119	-.2701	-.2487
100.000						-.3114	-.2558	-.1765	-.1640	-.1933	-.2197	-.2656	-.2605	-.3032	-.2493
110.000						-.3666	-.3262	-.2550	-.2456	-.2800	-.2979	-.3083	-.3104	-.2787	-.2889
120.000						-.3620								-.2616	
130.000						-.5906								-.4333	
140.000						-.8068								-.4149	
150.000						-.7828								-.3929	
160.000						-.7430								-.3904	
170.000						-.7577								-.3916	
180.000						-.7319	-.6533	-.5810	-.5464	-.5143	-.4310	-.4045	-.3897	-.3954	-.4020

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2549	-.1845	-.1671	-.1732	-.1632	-.0637	.0250	.0000	.0289	-.0328	-.0485	-.0711	-.1171	-.1626	-.0990
100.000	-.2360	-.2351	-.2340	-.2118	-.1807	-.1101	-.0240	-.0072	-.0029	-.0376	-.0652	-.0642	-.1162	-.1396	-.2317
110.000	-.2736	-.2704	-.2635	-.2563	-.2429	-.1913	-.0923	-.0749	-.0876	-.1254	-.0205	-.0794	-.1216	-.1768	-.2465
120.000						-.3656								-.2465	
130.000						-.3503								-.1964	
140.000						-.2213								-.1527	
150.000						-.1297								-.1134	
160.000						-.0852								-.0758	
170.000						-.0513								-.0516	
180.000	-.3948	-.3514	-.2567	-.1943	-.1154	-.0218	-.0035	.0055	.0076	.0061	-.0061	-.0182	-.0223	-.0233	-.0039

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9450
PHI									
80.000							.0033		
70.000							-.0409	-.1120	.0000
80.000							-.0597	-.1691	-.1934
90.000	-.2721	-.2533	-.3391	-.2544	-.0816	.0000	-.0584	-.1653	-.2182
100.000	-.2341	-.2915	-.3176	-.0409	.0159	-.0354			
110.000	-.2458	-.2745	-.1566	.1286	.1190	.0222			
120.000						.1184			
130.000						.1836			
140.000						-.0973			
150.000						.0037			
160.000						.1645			
170.000						.2107			
180.000	-.2437	.1175	.1468	.1668	.1875	.1809			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.057 ALPHA (8) = 6.656

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2288	.1622	.0447												
70.000	.2390	.2184	.1055												
80.000	.1676	.2222	.1506												
90.000			.1994	-.0524	-.2877	-.2909	-.1479	.0000	-.0967	-.1718	-.1813	-.2113	-.1889	-.2579	-.2163
100.000						-.2884	-.2249	-.1602	-.1449	-.1781	-.2077	-.2560	-.2383	-.2853	-.2325
110.000						-.3298	-.3207	-.2372	-.2321	-.2706	-.2983	-.3034	-.3120	-.2760	-.2520
120.000						-.3423								-.2609	
130.000						-.5730								-.4882	
140.000						-.8017								-.4703	
150.000						-.7899								-.4231	
160.000						-.7509								-.4099	
170.000						-.7604								-.3937	
180.000						-.7431	-.6945	-.6107	-.5828	-.5377	-.4652	-.4263	-.4095	-.3945	-.3646

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1834	-.2043	-.2120	-.1998	-.1876	-.1248	-.0371	.0000	.0307	-.0208	-.0755	-.0911	-.1403	-.1627	.0000
100.000	-.2386	-.2613	-.2552	-.2356	-.2186	-.1799	-.0936	-.0367	-.0014	-.0852	-.0928	-.0826	-.1489	-.1758	-.2591
110.000	-.3179	-.2953	-.2859	-.3080	-.2966	-.2606	-.1849	-.1058	-.0822	-.1244	-.1005	-.1209	-.1698	-.2240	-.2829
120.000						-.4035								-.2965	
130.000						-.3448								-.2334	
140.000						-.1892								-.1705	
150.000						-.1372								-.1281	
160.000						-.0737								-.0946	
170.000						-.0521								-.0841	
180.000	-.3439	-.2474	-.1578	-.1174	-.0732	-.0330	-.0131	.0248	.0252	.0149	-.0137	-.0385	-.0558	-.0655	-.0398

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0138		
70.000							-.0561	-.1167	.0000
80.000							-.0759	-.1802	-.2180
90.000	-.2929	-.2801	-.3354	-.3229	-.1161	.0000	-.0727	-.1995	-.2316
100.000	-.2559	-.2880	-.3148	-.0840	-.0051	-.0820			
110.000	-.2721	-.2920	-.1896	.1031	.0793	.0089			
120.000						.1136			
130.000						.1589			
140.000						-.1353			
150.000						-.0113			
160.000						.0941			
170.000						.0907			
180.000	-.2578	.0817	.1300	.1533	.1542	.2680			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (5) = 1.046 ALPHA (9) = 8.884

SECTION (1)OAB, FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.1828	.1367	.0104												
70.000	.1735	.1707	.0768												
80.000	.0347	.1653	.1252												
90.000			.1636	-.0503	-.3222	-.2753	-.1493	.0000	-.0937	-.1670	-.1823	-.1959	-.1742	-.2481	-.2337
100.000						-.2600	-.2042	-.1574	-.1427	-.1767	-.2068	-.2449	-.2341	-.2909	-.2562
110.000						-.3486	-.2675	-.2430	-.2274	-.2760	-.2981	-.3119	-.3200	-.2994	-.3420
120.000						-.3780								-.2973	
130.000						-.6256								-.5721	
140.000						-.8615								-.5706	
150.000						-.8615								-.5100	
160.000						-.8219								-.4714	
170.000						-.8216								-.4157	
180.000						-.8089	-.7487	-.6604	-.6270	-.5818	-.4939	-.4445	-.3914	-.3583	-.2625

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.2081	-.2165	-.2275	-.2139	-.1982	-.1396	-.0424	.0000	.0081	-.0278	-.0336	-.1025	-.1725	-.2244	.0000
100.000	-.2712	-.2906	-.2901	-.2702	-.2520	-.1873	-.0915	-.0808	.0479	-.0513	-.0547	-.1111	-.1837	-.2110	-.3055
110.000	-.3488	-.3478	-.3465	-.3670	-.3335	-.2912	-.2027	-.1790	-.0149	-.0879	-.1230	-.1766	-.2149	-.2707	-.3312
120.000						-.3213								-.3325	
130.000						-.1628								-.2312	
140.000						-.1058								-.1374	
150.000						-.0620								-.2073	
160.000						-.0347								-.1376	
170.000						-.0202								-.1324	
180.000	-.2186	-.1417	-.1158	-.0881	-.0699	-.0136	-.0088	-.0032	-.0159	-.0351	-.0547	-.0737	-.1038	-.1188	-.1205

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
60.000							-.0094		
70.000							-.0441	-.1209	.0000
80.000							-.0571	-.1746	-.2272
90.000	-.3361	-.3100	-.3952	-.4390	-.2080	.0000	-.0603	-.1859	-.2394
100.000	-.3072	-.3462	-.3800	-.2018	-.0834	-.1059			
110.000	-.3308	-.3564	-.2803	.0051	.0354	-.0094			
120.000						.0997			
130.000						.1172			
140.000						-.1645			
150.000						-.0077			
160.000						.0435			
170.000						-.0605			
180.000	-.3316	-.0137	.0607	.0954	.1334	.3396			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.150 ALPHA (1) = -8.366

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4030	.4370
PHI															
60.000	.4933	.4024	.1964												
70.000	.5594	.4416	.2554												
80.000	.5732	.4405	.2731												
90.000			.2804	.0338	-.2699	-.2678	-.2568	.0000	-.1873	-.2128	-.1545	-.1078	-.0455	-.0676	.0079
100.000						-.2728	-.2806	-.2578	-.2236	-.1951	-.1352	-.1030	-.0544	-.0583	.0062
110.000						-.3436	-.3066	-.3153	-.2779	-.2039	-.1414	-.0747	-.0461	-.1295	-.0034
120.000						-.2095								-.1537	
130.000						-.3730								-.0653	
140.000						-.4596								-.0854	
150.000						-.4130								-.1067	
160.000						-.4074								-.1357	
170.000						-.4213								-.1643	
180.000						-.3405	-.2900	-.2396	-.2213	-.2173	-.1976	-.1887	-.1761	-.1803	-.1819

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6920	.7100
PHI															
90.000	.0420	.0346	.0356	.0371	.0390	.0552	.1219	.0000	.1829	.1748	.1605	.1200	.0734	.0481	.0000
100.000	.0247	.0062	.0132	.0213	.0267	.0511	.0834	.1386	.1636	.1475	.1371	.1132	.0742	.0606	.0364
110.000	.0170	.0167	.0163	.0165	.0053	.0072	.0568	.1157	.1402	.1440	.1256	.0939	.0781	.0612	.0470
120.000						-.0241								.0107	
130.000						-.0712								.0236	
140.000						-.0966								.0431	
150.000						-.0941								.0016	
160.000						-.1270								.0178	
170.000						-.1617								.0241	
180.000	-.1913	-.2019	-.1833	-.1905	-.1996	-.2148	-.2206	-.2282	-.2200	-.1737	-.0878	-.0215	.0812	.1437	.2046

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2257		
70.000							.1335	.1624	.0000
80.000							.1469	.1336	.1618
90.000	.0418	.2096	.2487	.2818	.2820	.0000	.1765	.1350	.1574
100.000	.0730	.2091	.2916	.3340	.3103	.2404			
110.000	.1481	.2678	.3567	.4112	.3604	.2327			
120.000						.2603			
130.000						.4060			
140.000						.2852			
150.000						.3678			
160.000						.5048			
170.000						.6322			
180.000	.1390	.3309	.3950	.4685	.5382	.4077			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.091 ALPHA (2) = -6.164

SECTION (1)GEB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4598	.3812	.1796												
85.000	.5217	.4109	.2382												
85.000	.5293	.4241	.2567												
90.000			.2698	.0212	-.2661	-.2868	-.2673	.0000	-.1908	-.2202	-.1847	-.1409	-.1013	-.1262	-.0475
100.000						-.2957	-.2942	-.2619	-.2279	-.2185	-.1643	-.1384	-.1061	-.1134	-.0508
110.000						-.3578	-.3105	-.3249	-.2907	-.2392	-.1718	-.1333	-.0980	-.1335	-.0633
120.000						-.2492								-.1520	
130.000						-.4315								-.1208	
140.000						-.5405								-.1422	
150.000						-.5000								-.1589	
160.000						-.4679								-.1890	
170.000						-.5100								-.2177	
180.000						-.4346	-.3499	-.2955	-.2698	-.2652	-.2400	-.2434	-.2320	-.2348	-.2474

X/L	.4590	.4680	.4860	.5050	.5240	.5460	.5610	.5830	.5980	.6170	.6360	.6540	.6730	.6880	.7190
PHI															
90.000	-.0182	-.0007	-.0050	.0087	.0087	.0342	.0952	.0000	.1043	.1320	.1285	.0890	.0398	.0105	.0000
100.000	-.0377	-.0256	-.0242	-.0436	-.0536	-.0445	.0568	.1115	.1568	.0969	.1197	.0809	.0400	.0224	.0351
110.000	-.0219	-.0161	-.0136	-.0188	-.0250	-.0211	.0230	.0966	.1006	.0934	.0917	.0619	.0391	.0332	-.0367
120.000						-.1665								-.1436	
130.000						-.1331								-.0106	
140.000						-.1572								.0116	
150.000						-.1538								.0500	
160.000						-.1646								.0675	
170.000						-.2190								.0478	
180.000	-.2324	-.2434	-.2227	-.2262	-.2355	-.2625	-.2785	-.2781	-.2384	-.1243	-.0397	.0055	.0646	.1113	.1632

X/L	.7290	.7470	.7670	.7850	.8030	.8210	.8620	.9000	.9490
PHI									
80.000							.1992		
70.000							.1667	.1237	.0000
80.000							.1468	.0974	.1337
90.000	-.0802	.0387	.1636	.2158	.2210	.0000	.1372	.0955	.1299
100.000	-.0429	.0858	.2035	.2749	.2467	.2059			
110.000	-.0181	.1605	.2955	.3577	.3207	.2046			
120.000						.2422			
130.000						.3829			
140.000						.2332			
150.000						.3259			
160.000						.4631			
170.000						.5870			
180.000	-.0132	.2860	.3933	.4116	.5044	.3902			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (θ) = 1.103 ALPHA (β) = -4.029

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0470	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
80.000	.4347	.3757	.1900												
70.000	.5081	.4050	.2370												
80.000	.5042	.4231	.2626												
90.000			.2796	.0309	-.2692	-.2730	-.2425	.0000	-.1806	-.2348	-.2306	-.2101	-.1254	-.1614	-.0538
100.000						-.2748	-.2711	-.2404	-.2219	-.2400	-.2228	-.2118	-.1358	-.1523	-.0591
110.000						-.3249	-.2879	-.3072	-.2881	-.2788	-.2554	-.1552	-.1337	-.1387	-.0701
120.000						-.2383								-.1420	
130.000						-.4227								-.1626	
140.000						-.5505								-.1754	
150.000						-.5085								-.1862	
160.000						-.4455								-.2067	
170.000						-.5083								-.2318	
180.000						-.4445	-.3840	-.3340	-.3194	-.3250	-.3093	-.2630	-.2377	-.2477	-.2370

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.0085	-.0013	.0049	-.0011	-.0144	-.0011	.0793	.0000	.1432	.1353	.1143	.0674	.0045	-.0446	.0000
100.000	-.0216	-.0303	-.0175	-.0294	-.0314	-.0424	.0398	.0913	.1301	.1021	.1037	.0555	.0011	-.0297	-.0676
110.000	-.0355	-.0293	-.0225	-.0423	-.0607	-.0686	.0020	.0643	.0930	.0936	.0676	.0502	-.0070	-.0457	-.0486
120.000						-.1401								-.0467	
130.000						-.1505								-.0274	
140.000						-.1765								-.0274	
150.000						-.1721								-.0199	
160.000						-.2050								-.0067	
170.000						-.2441								.0036	
180.000	-.2448	-.2642	-.2539	-.2677	-.2898	-.2673	-.2942	-.2657	-.1477	-.0632	-.0018	.0319	.0550	.0346	.1415

X/L	.7290	.7470	.7670	.7850	.8030	.8230	.8620	.9000	.9400
PHI									
80.000							.1555		
70.000							.1198	.0339	.0000
80.000							.0974	-.0101	.0620
90.000	-.1170	-.0805	.0128	.1646	.1978	.0000	.0847	-.0148	.0775
100.000	-.0819	-.0642	.1116	.2349	.2397	.1735			
110.000	-.0787	.0168	.2285	.3581	.2880	.1872			
120.000						.2320			
130.000						.3690			
140.000						.1891			
150.000						.2766			
160.000						.4235			
170.000						.5206			
180.000	-.0749	.2663	.3387	.4122	.4727	.3555			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (6) = 1.195 ALPHA (4) = -1.899

SECTION (1)66B. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0075	.1265	.1845	.2535	.2425	.2645	.2825	.3015	.3195	.3385	.3575	.3765	.3945	.4055	.4315
PHI															
60.000	.4323	.3669	.3012												
70.000	.4028	.3496	.2442												
80.000	.4724	.3963	.2725												
90.000			.2945	.0416	-.2599	-.2684	-.2398	.0000	-.1825	-.2212	-.2126	-.1952	-.1437	-.1778	-.0925
100.000						-.2644	-.2789	-.2430	-.2185	-.2274	-.2143	-.1977	-.1557	-.1735	-.0876
110.000						-.3168	-.2961	-.3115	-.2853	-.2839	-.2394	-.1856	-.1603	-.1553	-.1020
120.000						-.2549								-.1484	
130.000						-.4469								-.1958	
140.000						-.6034								-.2102	
150.000						-.5638								-.2161	
160.000						-.5347								-.2414	
170.000						-.5621								-.2641	
180.000						.5154	-.4473	-.3698	-.3643	-.3462	-.3125	-.2936	-.2823	-.2692	-.2771

X/L	.4505	.4685	.4865	.5055	.5245	.5465	.5615	.5805	.5985	.6175	.6365	.6545	.6735	.6925	.7105
PHI															
90.000	-.0401	-.0298	-.0315	-.0296	-.0294	-.0294	.0461	.0770	.1185	.0965	.0777	.0224	-.0396	-.1744	.0103
100.000	-.0612	-.0618	-.0521	-.0474	-.0451	-.0 [illegible]	.0512	.0724	.0936	.0616	.0636	.0 [illegible]	-.0408	-.0562	-.0362
110.000	-.0752	-.0657	-.0546	-.0695	-.0750	-.0 [illegible]	-.0381	.0342	.0527	.0436	.0305	-.0 [illegible]	-.0475	-.0 [illegible]	-.0312
120.000						-.1525								-.0667	
130.000						-.1334								-.0425	
140.000						-.2215								-.0251	
150.000						-.2145								-.0310	
160.000						-.2455								.0019	
170.000						-.2731								.0133	
180.000	-.2859	-.3033	-.2892	-.2884	-.2973	-.2345	-.2575	-.1577	-.0624	-.0052	.0303	.0318	.0283	.0436	.0930

X/L	.7295	.7475	.7675	.7855	.8035	.8235	.8620	.9 [illegible]	.9400
PHI									
80.000							.1256		
90.000							.0878	-.0002	.0 [illegible]
100.000							.0691	-.0529	.0 [illegible]
110.000	-.1421	-.1256	-.1302	-.0820	.1492	.2 [illegible]	.0614	-.0696	.0293
120.000	-.1052	-.1218	-.0 [illegible]	.1760	.1313	.1294			
130.000	-.1954	-.0898	.1561	.2497	.2512	.1545			
140.000						.2045			
150.000						.3216			
160.000						.1258			
170.000						.2135			
180.000						.3764			
190.000						.4535			
200.000	-.0973	.2432	.3021	.3594	.4196	.3276			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (6) = 1.101 ALPHA (5) = .200

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4034	.3511	.1988												
70.000	.4483	.3845	.2443												
80.000	.4271	.3735	.2679												
90.000			.2889	.0500	-.2535	-.2610	-.2124	.0000	-.1559	-.1947	-.1949	-.1983	-.1591	-.1899	-.1155
100.000						-.2602	-.2576	-.2169	-.1912	-.2041	-.2078	-.2186	-.1 06	-.1938	-.1199
110.000						-.3075	-.2788	-.2881	-.2622	-.2734	-.2564	-.2177	-.1860	-.1715	-.1374
120.000						-.2662								-.1604	
130.000						-.4665								-.2442	
140.000						-.6458								-.2549	
150.000						-.6122								-.2570	
160.000						-.5736								-.2751	
170.000						-.6007								-.2943	
180.000						-.5628	-.4845	-.4224	-.3969	-.3736	-.3398	-.3203	-.3032	-.3061	-.3024

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0701	-.0513	-.0559	-.0536	-.0503	-.0544	.0213	.0050	.0952	.0657	.0558	.0024	-.0648	-.0994	.0000
100.000	-.0964	-.0806	-.0790	-.0726	-.0647	-.0788	-.0275	.0466	.0769	.0246	.0361	-.0119	-.0650	-.0767	-.1219
110.000	-.1100	-.0877	-.0837	-.0996	-.1034	-.1122	-.0768	.0055	.0223	.0030	-.0142	-.0528	-.0757	-.0902	-.1130
120.000						-.2035								-.0914	
130.000						-.2461								-.0616	
140.000						-.2605								-.0394	
150.000						-.2517								-.0216	
160.000						-.2647								.0016	
170.000						-.2511								.0217	
180.000	-.3036	-.3202	-.3055	-.2919	-.2648	-.1875	-.1487	-.0864	-.0147	.0192	.0493	.0460	.0446	.0585	.0918

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1041		
70.000							.0668	-.0098	.0000
80.000							.0444	-.0669	-.0150
90.000	-.1626	-.1419	-.2076	.0016	.1003	.0000	.0408	-.0832	-.0173
100.000	-.1201	-.1538	-.1290	.1229	.1505	.1093			
110.000	-.1209	-.1353	.0663	.2520	.2276	.1444			
120.000						.1998			
130.000						.3038			
140.000						.0761			
150.000						.1766			
160.000						.3430			
170.000						.4065			
180.000	-.1273	.2167	.2609	.3049	.3648	.2897			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (6) = 1.088 ALPHA (6) = 2.452

SECTION (1) 68. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3327	.2831	.1446												
70.000	.3660	.3191	.1930												
80.000	.3382	.3317	.2198												
90.000			.2462	.0124	-.2779	-.2845	-.1940	.0000	-.0882	-.1334	-.1436	-.1601	-.1871	-.2427	-.2069
100.000						-.2850	-.2456	-.1754	-.1300	-.1398	-.1561	-.1879	-.2225	-.2548	-.2027
110.000						-.3316	-.2765	-.2569	-.2055	-.2180	-.2216	-.2610	-.2421	-.2269	-.2327
120.000						-.3164								-.2098	
130.000						-.5281								-.3380	
140.000						-.7278								-.3326	
150.000						-.6997								-.3239	
160.000						-.6602								-.3382	
170.000						-.6863								.3495	
180.000						-.6577	-.5395	-.4615	-.4220	-.3978	-.3503	-.3709	-.3528	-.3605	-.3580

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1650	-.1272	-.1141	-.0867	-.0684	-.0626	.0061	.0000	.0544	.0097	.0228	-.0216	-.0825	-.1155	.0000
100.000	-.1992	-.1630	-.1412	-.1040	-.0867	-.0921	-.0504	.0163	.0300	-.0405	.0033	-.0391	-.0859	-.0922	-.1700
110.000	-.1969	-.1732	-.1483	-.1468	-.1316	-.1312	-.1094	-.0356	-.0369	-.0745	-.0571	-.0852	-.0973	-.0996	-.1709
120.000						-.2464								-.1183	
130.000						-.3227								-.0749	
140.000						-.3293								-.0482	
150.000						-.3092								-.0138	
160.000						-.2878								.0220	
170.000						-.2017								.0533	
180.000	-.3369	-.3452	-.3132	-.2672	-.1980	-.1422	-.0908	-.0232	.0149	.0170	.0569	.0607	.0705	.0914	.0756

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000									
70.000							.0924		
80.000							.0531	-.0097	.0000
90.000	-.2138	-.2011	-.2745	-.1194	-.0040	.0000	.0376	-.0672	-.0749
100.000	-.1692	-.2146	-.2346	.0379	.0640	.0665	.0345	-.0844	-.0867
110.000	-.1787	-.2072	-.0440	.1823	.1852	.1072			
120.000						.1885			
130.000						.2780			
140.000						.0222			
150.000						.1219			
160.000						.3008			
170.000						.3651			
180.000	-.1806	.1674	.1879	.2044	.2679	.2188			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (FEB'28)

MACH (M_∞) = 1.150 ALPHA (α) = 4.478

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0875	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3093	.2526	.1125												
70.000	.3343	.2917	.1759												
80.000	.2854	.3046	.2075												
90.000			.2443	-.0046	-.2496	-.2527	-.1246	.0000	-.0544	-.1210	-.1554	-.1574	-.1531	-.2194	-.1961
100.000						-.2527	-.2142	-.1107	-.0953	-.1231	-.1518	-.1972	-.1996	-.2477	-.1975
110.000						-.3003	- 2640	-.1962	-.1745	-.2090	-.2279	-.2450	-.2489	-.2194	-.2546
120.000						-.2930								-.2008	
130.000						-.5106								-.3770	
140.000						-.7201								-.3607	
150.000						-.7906								-.3402	
160.000						-.6589								-.3444	
170.000						-.6763								-.3443	
180.000						-.6526	-.5726	-.5002	-.4666	-.4438	-.3850	-.3625	-.3470	-.3466	-.3466

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6940	.7130
PHI															
90.000	-.1566	-.1462	-.1483	-.1324	-.1204	-.1068	-.0141	.0000	.0606	.0114	-.0038	-.0439	-.1150	-.1561	.0000
100.000	-.1919	-.1865	-.1838	-.1665	-.1444	-.1444	-.0773	.0183	.0343	-.0372	-.0252	-.0730	-.1246	-.1351	-.1625
110.000	-.2156	-.2104	-.2082	-.2150	-.1970	-.1972	-.1434	-.0479	-.0395	-.0748	-.0990	-.1293	-.1471	-.1368	-.1661
120.000						-.3295								-.1528	
130.000						-.3546								-.1137	
140.000						-.3517								-.0697	
150.000						-.2994								-.0277	
160.000						-.2211								-.0046	
170.000						-.1413								-.0161	
180.000	-.3409	-.3430	-.2779	-.2267	-.1575	-.1033	-.0301	.0139	.0426	.0434	.0371	.0546	.0525	.0375	.0739

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0599		
70.000							.0215	-.0463	.0000
80.000							.0012	-.1023	-.1394
90.000	-.2105	-.1650	-.2762	-.2105	-.0345	.0000	.0045	-.1200	-.1532
100.000	-.1905	-.2167	-.2474	-.0006	.0558	.0128			
110.000	-.1830	-.2113	-.1131	.1650	.1655	.0796			
120.000						.1743			
130.000						.2456			
140.000						-.0294			
150.000						.0664			
160.000						.2004			
170.000						.2554			
180.000	-.1842	.1632	.1912	.2045	.2294	.2330			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (6) = 1.091 ALPHA (8) = 6.630

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2551	.2000	.0622												
70.000	.2647	.2355	.1202												
80.000	.1936	.2397	.1642												
90.000			.2061	-.0475	-.2741	-.2812	-.1085	.0000	-.0602	-.1243	-.1393	-.1589	-.1597	-.2359	-.2212
100.000						-.2812	-.1997	-.1214	-.1043	-.1312	-.1583	-.2030	-.2125	-.2647	-.2359
110.000						-.3201	-.2794	-.1966	-.1891	-.2201	-.2440	-.2652	-.2805	-.2558	-.2956
120.000						-.3297								-.2434	
130.000						-.5559								-.4682	
140.000						-.7780								-.4556	
150.000						-.7636								-.4141	
160.000						-.7259								-.4069	
170.000						-.7326								-.3982	
180.000						-.7136	-.6397	-.5650	-.5273	-.4940	-.4257	-.4034	-.3843	-.3905	-.3783

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1880	-.1775	-.1808	-.1667	-.1518	-.1504	-.0595	.0000	.0157	-.0373	-.0530	-.1025	-.1671	-.2012	.0000
100.000	-.2393	-.2353	-.2216	-.1961	-.1862	-.1955	-.1334	-.0422	-.0148	-.0982	-.0825	-.1237	-.1761	-.1620	-.2356
110.000	-.2800	-.2665	-.2541	-.2634	-.2615	-.2733	-.2048	-.1176	-.1045	-.1384	-.1620	-.1932	-.1949	-.1578	-.2511
120.000						-.4207								-.2233	
130.000						-.4255								-.1547	
140.000						-.3602								-.0938	
150.000						-.2406								-.0518	
160.000						-.1709								-.0353	
170.000						-.0972								-.0111	
180.000	-.3371	-.2744	-.2141	-.1642	-.1201	-.0689	-.0441	-.0085	.0019	.0077	.0216	.0106	.0016	.0056	-.0010

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0287		
70.000							-.0082	-.0722	.0000
80.000							-.0249	-.1251	-.1512
90.000	-.2628	-.2590	-.3254	-.3289	-.1139	.0000	-.0237	-.1506	-.1642
100.000	-.2319	-.2680	-.3061	-.1007	-.0123	-.0477			
110.000	-.2413	-.2777	-.1917	.0902	.1149	.0353			
120.000						.1428			
130.000						.1923			
140.000						-.0858			
150.000						.0437			
160.000						.1199			
170.000						.1116			
180.000	-.2429	.0809	.1236	.1452	.1838	.3125			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.100 ALPHA (9) = 8.748

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2282	.1716	.0527												
70.000	.2188	.2005	.1086												
80.000	.1284	.2016	.1544												
90.000			.2012	-.0243	-.2486	-.2305	-.0788	.0000	-.0308	-.0988	-.1140	-.1364	-.1279	-.2126	-.1895
100.000						-.2314	-.1289	-.0926	-.0778	-.1077	-.1352	-.1884	-.1918	-.2451	-.2118
110.000						-.2910	-.1965	-.1740	-.1643	-.1992	-.2295	-.2544	-.2697	-.2453	-.2868
120.000						-.3203								-.2387	
130.000						-.3506								-.5149	
140.000						-.7775								-.5110	
150.000						-.7756								-.4529	
160.000						-.7374								-.4326	
170.000						-.7359								-.4056	
180.000						-.7193	-.6477	-.5724	-.5365	-.4970	-.4411	-.4184	-.3804	-.3754	-.3114

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.1591	-.1556	-.1750	-.1659	-.1618	-.1511	-.0601	.0000	.0067	-.0521	-.0878	-.1349	-.1869	-.2093	.0000
100.000	-.2168	-.2213	-.2296	-.2143	-.2052	-.2029	-.1380	-.0554	-.0376	-.1264	-.1118	-.1477	-.1813	-.1731	-.2601
110.000	-.2794	-.2730	-.2809	-.3003	-.2887	-.2858	-.2348	-.1531	-.1474	-.1806	-.1961	-.1996	-.1704	-.2068	-.2762
120.000						-.5511								-.2455	
130.000						-.3856								-.1950	
140.000						-.2373								-.1715	
150.000						-.1350								-.0674	
160.000						-.1042								-.0582	
170.000						-.0496								-.0569	
180.000	-.2491	-.1943	-.1494	-.1248	-.0895	-.0414	-.0407	-.0060	-.0008	-.0002	.0087	-.0067	-.0197	-.0325	-.0572

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0357		
70.000							.0026	-.0602	.0000
80.000							-.0024	-.1103	-.1748
90.000	-.2897	-.2649	-.3404	-.3475	-.1934	.0000	-.0044	-.1278	-.1860
100.000	-.2866	-.3106	-.3153	-.1586	-.0785	-.0581			
110.000	-.2683	-.2995	-.1248	.0038	.0430	.0292			
120.000						.1667			
130.000						.1970			
140.000						-.0462			
150.000						.0282			
160.000						.1315			
170.000						.0188			
180.000	-.2733	.0275	.0918	.1419	.1958	.4097			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.152 ALPHA (1) = -8.318

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5542	.4630	.2600												
70.000	.6188	.5009	.3168												
80.000	.6321	.4968	.3358												
90.000			.3364	.1031	-.1937	-.1874	-.1653	.0000	-.0894	-.1099	-.0508	.0010	.0599	.0287	.1007
100.000						-.1868	-.1867	-.1610	-.1271	-.0933	-.0375	.0018	.0350	.0396	.0987
110.000						-.2598	-.2144	-.2209	-.1784	-.0996	-.0397	.0158	.0400	-.1254	.0927
120.000						-.1281								-.1970	
130.000						-.2849								.0131	
140.000						-.3646								-.0062	
150.000						-.3230								-.0264	
160.000						-.3183								-.0533	
170.000						-.3323								-.0813	
180.000						-.2513	-.1861	-.1366	-.1198	-.1224	-.0996	-.1014	-.0988	-.1014	-.1028

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.1153	.1340	.1260	.1223	.1134	.1233	.1738	.0000	.2353	.2282	.2246	.1902	.1441	.1138	.0000
100.000	.1009	.1126	.1102	.1017	.0978	.1021	.1319	.1855	.2219	.1999	.2179	.1819	.1425	.1273	.0837
110.000	.1146	.1191	.1173	.0896	.0809	.0811	.1072	.1626	.1962	.1970	.1920	.1673	.1463	.1132	.0868
120.000						.0497								.0663	
130.000						.0009								.0695	
140.000						-.0267								.0517	
150.000						-.0210								.0460	
160.000						-.0572								.0545	
170.000						-.0957								.0770	
180.000	-.0909	-.1002	-.0837	-.1024	-.1163	-.1339	-.1476	-.1572	-.1463	-.1022	-.0140	.0119	.0438	.1245	.2361

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2791		
70.000							.2538	.2128	.0000
80.000							.2403	.1873	.2118
90.000	.0530	.2425	.2682	.3176	.3206	.0000	.2284	.1885	.2077
100.000	.0938	.1701	.3101	.3712	.3467	.2920			
110.000	.1098	.2201	.3888	.4463	.4056	.2884			
120.000						.3141			
130.000						.4616			
140.000						.3387			
150.000						.4202			
160.000						.5542			
170.000						.6773			
180.000	.1080	.2871	.4390	.5102	.5872	.4689			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (P) = 1.151 ALPHA (Z) = -6.202

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1280	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5551	.4555	.2583												
70.000	.5957	.4881	.3164												
80.000	.6040	.4914	.3374												
90.000			.3466	.1053	-.1928	-.1930	-.1682	.0090	-.0972	-.1245	-.0800	-.0387	.0162	-.0076	.0597
100.000						-.1990	-.1977	-.1674	-.1326	-.1176	-.0620	-.0336	.0085	.0061	.0690
110.000						-.2567	-.2170	-.2307	-.1921	-.1334	-.0686	-.0197	.0091	-.0720	.0595
120.000						-.1487								-.1370	
130.000						-.3210								-.0205	
140.000						-.4202								-.0430	
150.000						-.3773								-.0595	
160.000						-.3655								-.0869	
170.000						-.3846								-.1146	
180.000						-.3095	-.2491	-.1947	-.1712	-.1633	-.1380	-.1360	-.1267	-.1356	-.1317

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0917	.0985	.0833	.0839	.0851	.1181	.1720	.0000	.2189	.2051	.1946	.1531	.1017	.0701	.0000
100.000	.0699	.0621	.0692	.0698	.0742	.0894	.1313	.1705	.2023	.1760	.1830	.1436	.1035	.0853	.0383
110.000	.0754	.0746	.0779	.0588	.0550	.0524	.1030	.1530	.1701	.1708	.1551	.1236	.1007	.0714	.0338
120.000						.0147								.0226	
130.000						-.0389								.0343	
140.000						-.0659								.0370	
150.000						-.0616								.0451	
160.000						-.0925								.0544	
170.000						-.1297								.0695	
180.000	-.1394	-.1473	-.1270	-.1406	-.1431	-.1712	-.1880	-.1886	-.1442	-.0804	-.0303	.0190	.0552	.1009	.2108

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
60.000							.2462		
70.000							.2154	.1608	.0000
80.000							.1988	.1355	.1830
90.000	-.0134	.0379	.1762	.2591	.2780	.0000	.1909	.1365	.1798
100.000	.0103	.0888	.2375	.3226	.3085	.2537			
110.000	.0172	.1758	.3303	.4031	.3643	.2551			
120.000						.2933			
130.000						.4315			
140.000						.2842			
150.000						.3702			
160.000						.5112			
170.000						.6249			
180.000	.0148	.3449	.4120	.4796	.5527	.4426			

AMES 66-65D PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.146 ALPHA (3) = -4.069

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5210	.4453	.2653												
70.000	.5728	.4780	.3134												
80.000	.5745	.4948	.3350												
90.000			.3512	.1111	-.1907	-.1974	-.1679	.0000	-.0937	-.1316	-.1068	-.0697	-.0220	-.0454	.0017
100.000						-.2009	-.1997	-.1630	-.1310	-.1297	-.0931	-.0714	-.0310	-.0355	-.0004
110.000						-.2563	-.2185	-.2258	-.1934	-.1628	-.1032	-.0613	-.0256	-.0599	-.0141
120.000						-.1714								-.1009	
130.000						-.3569								-.0649	
140.000						-.4831								-.0845	
150.000						-.4458								-.1019	
160.000						-.4243								-.1344	
170.000						-.4458								-.1594	
180.000						-.3865	-.2994	-.2412	-.2155	-.2041	-.1800	-.1689	-.1582	-.1808	-.1858

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0371	.0823	.0813	.0833	.0825	.0773	.1636	.0000	.1871	.1693	.1597	.1181	.0656	.0348	.0000
100.000	.0189	.0643	.0606	.0659	.0669	.0608	.1190	.1521	.1711	.1342	.1479	.1100	.0663	.0486	.0116
110.000	.0363	.0671	.0643	.0501	.0428	.0440	.0927	.1188	.1314	.1253	.1135	.0835	.0656	.0377	.0120
120.000						-.0238								.0099	
130.000						-.0722								.0298	
140.000						-.0923								.0328	
150.000						-.0892								.0352	
160.000						-.1158								.0458	
170.000						-.1529								.0478	
180.000	-.1734	-.1803	-.1609	-.1643	-.1738	-.1884	-.2060	-.1929	-.1195	-.0519	.0306	.0457	.0604	.0719	.1353

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2130		
70.000							.1800	.0936	.0000
80.000							.1618	.0474	.1439
90.000	-.0401	-.0304	.0385	.1880	.2253	.0000	.1532	.0381	.1372
100.000	-.0149	-.0261	.1430	.2653	.2600	.2035			
110.000	-.0124	.0333	.2600	.3602	.3140	.2242			
120.000						.2716			
130.000						.4042			
140.000						.2333			
150.000						.3223			
160.000						.4683			
170.000						.5652			
180.000	-.0083	.3168	.3772	.4397	.5103	.4192			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB02E)

MACH (7) = 1.151 ALPHA (4) = -1.945

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5079	.4392	.2777												
70.000	.5549	.4696	.3229												
80.000	.5436	.4672	.3405												
90.000			.3580	.1261	-.1758	-.1796	-.1426	.0000	-.0789	-.1157	-.1038	-.0813	-.0276	-.0525	.0283
100.000						-.1776	-.1819	-.1422	-.1155	-.1252	-.1056	-.0872	-.0443	-.0540	.0428
110.000						-.2308	-.2033	-.2120	-.1843	-.1786	-.1228	-.0809	-.0487	-.0523	.0432
120.000						-.1634								-.0743	
130.000						-.3496								-.0854	
140.000						-.4927								-.1009	
150.000						-.4608								-.1172	
160.000						-.4306								-.1389	
170.000						-.4563								-.1603	
180.000						-.4041	-.3372	-.2794	-.2535	-.2387	-.2096	-.1963	-.1786	-.1796	-.1715

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0929	.0727	.0803	.0834	.0591	.0680	.1438	.0000	.1872	.1752	.1461	.0949	.0362	.0062	.0000
100.000	.0815	.0484	.0397	.0448	.0470	.0395	.0872	.1390	.1659	.1339	.1295	.0813	.0328	.0314	-.0292
110.000	.0458	.0492	.0395	.0184	.0172	.0174	.0600	.1038	.1228	.1220	.0866	.0532	.0453	.0184	-.0209
120.000						-.0647								-.0105	
130.000						-.1192								.0091	
140.000						-.1417								.0134	
150.000						-.1284								.0213	
160.000						-.1529								.0304	
170.000						-.1644								.0314	
180.000	-.1824	-.2004	-.1865	-.1861	-.1780	-.1312	-.0793	-.0533	.0299	.0515	.0641	.0563	.0559	.0575	.0946

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1746		
70.000							.1372	.0575	.0000
80.000							.1206	.0049	.0619
90.000	-.0668	-.0552	-.1030	.1047	.1924	.0000	.1147	-.0142	.0680
100.000	-.0323	-.0630	-.0030	.2211	.2333	.1773			
110.000	-.0400	-.0390	.1711	.3383	.2962	.2050			
120.000						.2582			
130.000						.3753			
140.000						.1795			
150.000						.2730			
160.000						.4279			
170.000						.4995			
180.000	-.0392	.2496	.3543	.4168	.4692	.3923			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (P) = 1.151 ALPHA (S) = .166

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4481	.4173	.2776												
70.000	.5040	.4412	.3218												
80.000	.4874	.4465	.3503												
90.000			.3697	.1411	-.1584	-.1614	-.1151	.0000	-.0366	-.0682	-.0726	-.0844	-.0272	-.0659	-.0148
100.000						-.1618	-.1622	-.1135	-.0749	-.0846	-.0830	-.0971	-.0423	-.0641	-.0112
110.000						-.2087	-.1863	-.1855	-.1448	-.1552	-.1264	-.0798	-.0490	-.0584	-.0295
120.000						-.1685								-.0651	
130.000						-.3626								-.1146	
140.000						-.3329								-.1230	
150.000						-.5002								-.1252	
160.000						-.4668								-.1530	
170.000						-.4927								-.1753	
180.000						-.4502	-.3776	-.3113	-.2816	-.2626	-.2249	-.1955	-.1798	-.1898	-.1922

X/L	.4300	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0447	.0469	.0469	.0528	.0512	.0580	.1539	.0000	.1737	.1413	.1079	.0701	.0180	-.0061	.0000
100.000	.0225	.0222	.0208	.0317	.0429	.0340	.1128	.1428	.1565	.0940	.0956	.0608	.0253	.0259	-.0358
110.000	-.0020	.0176	.0176	.0053	.0027	-.0120	.0570	.1011	.1019	.0817	.0489	.0339	.0283	-.0020	-.0400
120.000						-.1104								-.0364	
130.000						-.1322								-.0149	
140.000						-.1490								-.0090	
150.000						-.1336								.0025	
160.000						-.1214								.0168	
170.000						-.0639								.0265	
180.000	-.2082	-.2192	-.1929	-.1535	-.0955	-.0408	-.0190	.0127	.0544	.0667	.0663	.0604	.0546	.0517	.0807

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1478		
70.000							.1108	.0412	.0000
80.000							.0928	-.0139	-.0133
90.000	-.0794	-.0717	-.1442	-.0009	.1211	.0000	.0894	-.0330	-.0015
100.000	-.0476	-.0859	-.1105	.1498	.1887	.1407			
110.000	-.0541	-.0705	.0447	.2869	.2552	.1773			
120.000						.2452			
130.000						.3443			
140.000						.1211			
150.000						.2179			
160.000						.3876			
170.000						.4379			
180.000	-.0553	.2857	.3251	.3680	.4151	.3884			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.150 ALPHA (6) = 2.323

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.4238	.3781	.2523												
70.000	.4681	.4156	.3056												
80.000	.4570	.4339	.3181												
90.000			.3524	.1213	-.1576	-.1527	-.0448	.0000	.0094	-.0535	-.0622	-.0825	-.0800	-.0992	-.0443
100.000						-.1558	-.1155	-.0501	-.0256	-.0531	-.0681	-.1088	-.0811	-.1095	-.0396
110.000						-.2021	-.1691	-.1286	-.1025	-.1274	-.1359	-.1192	-.1016	-.0948	-.0650
120.000						-.1801								-.0867	
130.000						-.3831								-.1691	
140.000						-.5719								-.1675	
150.000						-.5425								-.1639	
160.000						-.5032								-.1792	
170.000						-.5281								-.1931	
180.000						-.4945	-.4182	-.3498	-.3185	-.2897	-.2357	-.2092	-.2033	-.2013	-.2035

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0079	.0119	.0097	.0238	.0260	.0402	.1088	.0000	.1596	.1195	.0902	.0404	-.0162	-.0447	.0000
100.000	-.0235	-.0234	-.0115	-.0028	.0099	.0044	.0752	.1211	.1353	.0698	.0716	.0260	-.0025	-.0144	-.0863
110.000	-.0808	-.0316	-.0284	-.0403	-.0316	-.0445	.0453	.0756	.0760	.0487	.0141	-.0076	.0028	-.0369	-.0953
120.000						-.1593								-.0917	
130.000						-.1897								-.0598	
140.000						-.1929								-.0393	
150.000						-.1508								-.0203	
160.000						-.0911								.0012	
170.000						-.0581								.0175	
180.000	-.2228	-.2242	-.1621	-.1041	-.0564	-.0496	-.0129	.0461	.0827	.0843	.0718	.0586	.0485	.0491	.0772

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1117		
70.000							.0724	.0197	.0000
80.000							.0598	-.0329	-.0593
90.000	-.1259	-.1046	-.1782	-.1174	-.1629	.0000	.0598	-.0538	-.0709
100.000	-.0910	-.1200	-.1583	.0829	.1459	.0926			
110.000	-.1028	-.1196	-.0662	.2499	.2266	.1453			
120.000						.2323			
130.000						.3115			
140.000						.0582			
150.000						.1617			
160.000						.3360			
170.000						.3736			
180.000	-.1024	.1900	.2794	.3132	.3493	.2942			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (7) = 1.153 ALPHA (7) = 4.467

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3839	.3104	.1692												
70.000	.4021	.3629	.2107												
80.000	.3644	.3731	.2504												
90.000			.3047	.0577	-.1513	-.1489	.0081	.0000	.0490	-.0260	-.0452	-.0569	-.0309	-.0870	-.0512
100.000						-.1491	-.0834	-.0052	.0073	-.0278	-.0622	-.0965	-.0734	-.1009	-.0506
110.000						-.2043	-.1444	-.0775	-.0654	-.1157	-.1349	-.1266	-.1152	-.0967	-.0842
120.000						-.1924								-.0906	
130.000						-.4053								-.2200	
140.000						-.6044								-.2141	
150.000						-.5837								-.2019	
160.000						-.5433								-.2035	
170.000						-.5637								-.2103	
180.000						-.5364	-.4648	-.3904	-.3575	-.3197	-.2573	-.2278	-.2089	-.2121	-.2155

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0034	-.0224	-.0121	-.0045	-.0218	-.0041	.1350	.0000	.1464	.0948	.0607	.0132	-.0450	-.0671	.0000
100.000	-.0422	-.0493	-.0549	-.0391	-.0352	-.0463	.1025	.1195	.1241	.0408	.0366	.0011	-.0226	-.0426	-.1150
110.000	-.0881	-.0825	-.0801	-.0897	-.0885	-.0901	.0390	.0572	.0447	.0064	-.0361	-.0093	-.0246	-.0836	-.1263
120.000						-.2284								-.1523	
130.000						-.2374								-.1073	
140.000						-.1957								-.0759	
150.000						-.0962								-.0434	
160.000						-.0584								-.0128	
170.000						-.0181								.0101	
180.000	-.2091	-.1585	-.0913	-.0696	-.0457	.0109	.0437	.0479	.0802	.0709	.0675	.0566	.0467	.0411	.0669

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0799		
70.000							.0461	-.0043	.0000
80.000							.0427	-.0597	-.0956
90.000	-.1931	-.1225	-.2065	-.2321	-.0062	.0000	.0415	-.0791	-.1023
100.000	-.1373	-.1540	-.1907	-.0011	.0978	.0437			
110.000	-.1304	-.1536	-.1432	.1945	.1948	.1302			
120.000						.2266			
130.000						.2827			
140.000						.0041			
150.000						.1130			
160.000						.2753			
170.000						.3133			
180.000	-.1292	.1904	.2509	.2685	.2787	.2900			

AMES 08-U30 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (P) = 1.190 ALPHA (B) = 0.083

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.3674	.7997	.1660												
70.000	.5802	.3449	.2222												
80.000	.3078	.3496	.2644												
90.000			.3080	.0828	-.1757	-.1654	.0181	.0000	.0882	-.0066	-.0175	-.0337	-.0056	-.0727	-.0388
100.000						-.1656	-.0584	.0060	.0226	-.0173	-.0382	-.0805	-.0804	-.1027	-.0749
110.000						-.2051	-.1548	-.0866	-.0823	-.1058	-.1230	-.1267	-.1265	-.1019	-.1316
120.000						-.2079								-.0985	
130.000						-.4219								-.3002	
140.000						-.6368								-.2776	
150.000						-.6222								-.2434	
160.000						-.5639								-.2287	
170.000						-.5951								-.2253	
180.000						-.5754	-.5142	-.4409	-.3995	-.3521	-.2808	-.2444	-.2228	-.2148	-.1839

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5280	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
80.000	-.0880	-.0854	-.0805	-.0842	-.0912	-.0385	.0959	.0000	.1372	.0745	.0265	-.0187	-.0760	-.1201	.0000
100.000	-.0807	-.0878	-.0813	-.0844	-.0816	-.0842	.0459	.0923	.1054	.0143	.0014	-.0427	-.0756	-.1037	-.1581
110.000	-.1429	-.1883	-.1278	-.1670	-.1317	-.1409	-.0185	.0267	.0194	-.0273	-.0803	-.0945	-.1066	-.1260	-.1750
120.000						-.2084								-.2155	
130.000						-.2590								-.1590	
140.000						-.1769								-.1086	
150.000						-.0598								-.0635	
160.000						-.0271								-.0316	
170.000						-.0037								-.0078	
180.000	-.1906	-.1084	-.0885	-.0727	-.0226	.0259	.0898	.0781	.2676	.0868	.0497	.0364	.0214	.0151	.0285

X/L	.7890	.7670	.7870	.7890	.8050	.8290	.8620	.9000	.9400
PHI									
60.000							.0305		
70.000							.0232	-.0390	.0000
80.000							.0108	-.0968	-.1261
90.000	-.1884	-.1744	-.2413	-.2974	-.0825	.0000	-.0219	-.1116	-.1407
100.000	-.1571	-.1978	-.2366	-.1207	.0435	-.0028			
110.000	-.1790	-.2059	-.2045	.1196	.1365	.1117			
120.000						.2163			
130.000						.2479			
140.000						-.0480			
150.000						.0779			
160.000						.1816			
170.000						.1838			
180.000	-.1706	.1926	.2089	.2269	.2378	.3161			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (M) = 1.20 ALPHA (A) = 9.742

SECTION : 1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0490	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3407	.2938	.1870												
70.000	.3391	.3139	.2358												
80.000	.2852	.3216	.2843												
90.000			.3186	.0993	-.1636	-.1263	.0191	.0000	.0830	.0148	-.0018	-.0210	-.0235	-.0832	-.0881
100.000						-.1334	-.0319	.0236	.0372	.0021	-.0210	-.0708	-.0768	-.1312	-.0828
110.000						-.1931	-.1209	-.0573	-.0490	-.0919	-.1148	-.1566	-.1497	-.1171	-.1657
120.000						-.2126								-.1094	
130.000						-.4377								-.3801	
140.000						-.6581								-.3721	
150.000						-.6519								-.2941	
160.000						-.6168								-.2596	
170.000						-.6194								-.2356	
180.000						-.6053	-.5425	-.4667	-.4317	-.3755	-.2785	-.2711	-.2267	-.2035	-.1542

X/L	.4900	.4680	.4460	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0379	-.0576	-.0670	-.0445	-.0349	-.0317	.0198	.0000	.0857	.0326	.0147	-.0372	-.0771	-.1078	.0000
100.000	-.1002	-.1099	-.1182	-.1036	-.0754	-.0892	-.0619	.0314	.0510	-.0250	-.0132	-.0552	-.0808	-.0912	-.2178
110.000	-.1518	-.1714	-.1681	-.1799	-.1790	-.1728	-.1690	-.0644	-.0500	-.0490	-.0671	-.1002	-.0943	-.1469	-.2351
120.000						-.3606								-.2462	
130.000						-.3251								-.1693	
140.000						-.2327								-.1215	
150.000						-.1225								-.0781	
160.000						-.0594								-.0456	
170.000						-.0205								-.0314	
180.000	-.0894	-.0650	-.0247	-.0083	.0090	-.0074	.0100	.0451	.0577	.0480	.0420	.0207	-.0013	-.0175	-.0357

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0100		
70.000							.0272	-.0364	.0000
80.000							.0065	-.1029	-.1326
90.000	-.2350	-.2198	-.2705	-.3402	-.1553	.0000	-.0568	-.1217	-.1367
100.000	-.2078	-.2566	-.2743	-.2033	-.0109	-.0161			
110.000	-.2273	-.2583	-.2412	.0565	.1149	.0967			
120.000						.2073			
130.000						.2103			
140.000						-.0802			
150.000						.0825			
160.000						.1273			
170.000						.0535			
180.000	-.2318	.0894	.1452	.1924	.2328	.4052			

AMES 66-630 PRESSURE PLOTTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.249 ALPHA (1) = -8.450

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3506	.4838	.2924												
70.000	.6094	.5149	.3536												
80.000	.6182	.5300	.3746												
90.000			.3868	.1409	-.1249	-.1294	-.1331	.0000	-.0946	-.1322	-.1051	-.0768	-.0392	-.0595	-.0363
100.000						-.1410	-.1456	-.1431	-.1283	-.1276	-.0944	-.0723	-.0427	-.0591	-.0263
110.000						-.1947	-.1667	-.1853	-.1783	-.1469	-.0971	-.0595	-.0338	-.1617	-.0203
120.000						-.0896								-.2905	
130.000						-.2492								-.0423	
140.000						-.2738								-.0612	
150.000						-.3029								-.0732	
160.000						-.2833								-.0932	
170.000						-.3068								-.1125	
180.000						-.2641	-.2032	-.1625	-.1462	-.1433	-.1260	-.1256	-.1202	-.1275	-.1275

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0007	.0105	.0151	.0227	.0273	.0180	.0282	.0000	.1350	.1639	.1616	.1529	.1236	.0969	.0000
100.000	-.0116	-.0141	.0019	.0085	.0176	.0021	.0042	.0274	.1048	.1410	.1533	.1415	.1194	.1101	.0602
110.000	-.0079	-.0029	.0101	.0041	.0027	-.0037	.0017	.0139	.0623	.1321	.1283	.1221	.1176	.0967	.0556
120.000						-.0139								.0444	
130.000						-.0537								.0279	
140.000						-.0766								-.0092	
150.000						-.0688								-.0421	
160.000						-.0964								-.0737	
170.000						-.1211								-.1171	
180.000	-.1303	-.1411	-.1301	-.1400	-.1432	-.1585	-.1697	-.1791	-.1864	-.1866	-.1814	-.1649	-.1624	-.1424	-.0947

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2224		
70.000							.1951	.1299	.0000
80.000							.1784	.0847	.1295
90.000	.0224	-.1083	-.0191	.0821	.1628	.0000	.1667	.0632	.1477
100.000	.0242	-.0137	-.0230	.1895	.2227	.1739			
110.000	.0391	.0199	.0943	.3045	.2924	.1997			
120.000						.2912			
130.000						.4358			
140.000						.2274			
150.000						.3216			
160.000						.4986			
170.000						.7235			
180.000	.0370	.0298	.2835	.3762	.4397	.4102			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

DATE 24 MAR 74 TABULATED SOURCE DATA - IA29/OA63

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8028)

MACH (8) = 1.248 ALPHA (2) = -6.204

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5097	.4576	.2825												
70.000	.5648	.4897	.3351												
80.000	.5670	.5081	.3656												
90.000			.3831	.1343	-.1251	-.1321	-.1348	.0000	-.0970	-.1372	-.1244	-.1075	-.0728	-.0956	-.0751
100.000						-.1449	-.1498	-.1434	-.1263	-.1368	-.1218	-.1077	-.0776	-.0971	-.0620
110.000						-.2002	-.1676	-.1897	-.1802	-.1748	-.1308	-.0925	-.0701	-.1457	-.0585
120.000						-.1117								-.1893	
130.000						-.2770								-.0846	
140.000						-.3928								-.1017	
150.000						-.3581								-.1141	
160.000						-.3294								-.1316	
170.000						-.3544								-.1500	
180.000						-.3202	-.2527	-.2110	-.1901	-.1858	-.1670	-.1643	-.1550	-.1629	-.1658

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0400	-.0259	-.0159	-.0085	-.0018	-.0133	-.0018	.0000	.0985	.1324	.1048	.1082	.0879	.0608	.0000
100.000	-.0524	-.0494	-.0315	-.0189	-.0110	-.0228	-.0280	-.0062	.0942	.0998	.1005	.0872	.0887	.0755	.0157
110.000	-.0432	-.0375	-.0242	-.0267	-.0269	-.0344	-.0284	-.0205	.0308	.0704	.0610	.0618	.0804	.0542	.0112
120.000						-.0537								-.0093	
130.000						-.0962								-.0281	
140.000						-.1168								-.0688	
150.000						-.1097								-.0982	
160.000						-.1350								-.1309	
170.000						-.1597								-.1770	
180.000	-.1636	-.1736	-.1636	-.1742	-.1817	-.1971	-.2089	-.2189	-.2220	-.2303	-.2218	-.2132	-.2044	-.1967	-.1406

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1688		
70.000							.1481	.0922	.0000
80.000							.1341	.0447	.0403
90.000	-.0238	-.0941	-.0660	-.0279	.0952	.0000	.1167	.0250	.0469
100.000	-.0129	-.0512	-.0674	.1076	.1679	.1246			
110.000	-.0115	-.0243	.0000	.2457	.2510	.1702			
120.000						.2801			
130.000						.3931			
140.000						.1405			
150.000						.2504			
160.000						.4484			
170.000						.6779			
180.000	-.0127	-.0136	.2447	.3161	.3770	.3991			

AMES 60-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.250 ALPHA (3) = -4.154

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4756	.4364	.2731												
70.000	.5295	.4642	.3245												
80.000	.5211	.4655	.3529												
90.000			.3750	.1210	-.1301	-.1357	-.1271	.0000	-.0922	-.1325	-.1232	-.1238	-.0910	-.1199	-.0979
100.000						-.1412	-.1498	-.1379	-.1220	-.1337	-.1329	-.1296	-.0970	-.1201	-.0873
110.000						-.2001	-.1705	-.1880	-.1769	-.1849	-.1564	-.1149	-.0935	-.1375	-.0833
120.000						-.1282								-.1656	
130.000						-.2965								-.1238	
140.000						-.4350								-.1186	
150.000						-.3997								-.1481	
160.000						.3609								-.1639	
170.000						-.3854								-.1782	
180.000						-.3563	-.2950	-.2502	-.2291	-.2246	-.2049	-.1971	-.1903	-.1890	-.1855

X/L	.4900	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0644	-.0558	-.0440	-.0321	-.0276	-.0367	-.0289	.0000	.0468	.0786	.0775	.0515	.0542	.0310	.0000
100.000	-.0754	-.0772	-.0595	-.0452	-.0379	-.0508	-.0550	-.0403	.0200	.0464	.0709	.0348	.0509	.0434	-.0005
110.000	-.0879	-.0837	-.0517	-.0562	-.0556	-.0623	-.0597	-.0503	-.0205	.0291	.0428	.0160	.0468	.0259	-.0081
120.000						-.0905								-.0528	
130.000						-.1300								-.0784	
140.000						-.1504								-.1147	
150.000						-.1457								-.1401	
160.000						-.1680								-.1744	
170.000						-.1955								-.2099	
180.000	-.1873	-.1993	-.1927	-.2026	-.2087	-.2288	-.2439	-.2527	-.2562	-.2582	-.2492	-.2451	-.2273	-.2159	-.1202

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1225		
70.000							.1081	.0565	.0000
80.000							.1017	.0079	-.0063
90.000	-.0447	-.0755	-.0951	-.1074	.0396	.0000	.0856	-.0123	-.0119
100.000	-.0315	-.0669	-.0938	.0214	.1377	.0969			
110.000	-.0354	-.0554	-.0618	.1993	.2304	.1591			
120.000						.2746			
130.000						.3630			
140.000						.0655			
150.000						.1829			
160.000						.3969			
170.000						.6173			
180.000	-.0346	-.0233	.2046	.2713	.3297	.3748			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.249 ALPHA (4) = -2.031

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4201	.3929	.2566												
70.000	.4690	.4290	.3077												
80.000	.4506	.4226	.3419												
90.000			.3706	.1063	-.1294	-.1364	-.1194	.0000	-.0816	-.1237	-.1184	-.1266	-.1044	-.1382	-.1131
100.000						-.1422	-.1485	-.1306	-.1149	-.1262	-.1316	-.1454	-.1154	-.1376	-.1013
110.000						-.1919	-.1797	-.1863	-.1700	-.1857	-.1731	-.1391	-.1152	-.1351	-.1058
120.000						-.1362								-.1478	
130.000						-.3122								-.1602	
140.000						-.4673								-.1663	
150.000						-.4353								-.1744	
160.000						-.3913								-.1883	
170.000						-.4134								-.2008	
180.000						-.3925	-.3380	-.2947	-.2701	-.2613	-.2427	-.2242	-.2105	-.2103	-.2088

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0813	-.0823	-.0744	-.0593	-.0536	-.0642	-.0471	.0000	.0294	.0631	.0603	.0163	.0289	.0090	.0000
100.000	-.0967	-.1079	-.0910	-.0748	-.0630	-.0794	-.0726	-.0587	.0032	.0274	.0518	.0049	.0287	.0225	-.0453
110.000	-.1020	-.0966	-.0848	-.0889	-.0869	-.0954	-.0826	-.0732	-.0422	.0034	.0160	-.0146	.0138	-.0042	-.0536
120.000						-.1349								-.1029	
130.000						-.1661								-.1259	
140.000						-.1829								-.1627	
150.000						-.1774								-.1854	
160.000						-.1974								-.2128	
170.000						-.2209								-.2375	
180.000	-.2171	-.2291	-.2233	-.2335	-.2402	-.2546	-.2670	-.2744	-.2797	-.2825	-.2779	-.2598	-.2328	-.2028	-.1216

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0743		
70.000							.0776	.0119	.0000
80.000							.0592	-.0344	-.0468
90.000	-.0733	-.0949	-.1191	-.1722	-.0233	.0000	.0390	-.0431	-.0595
100.000	-.0801	-.0842	-.1099	-.0715	.0955	.0679			
110.000	-.0688	-.0824	-.1011	.1546	.2015	.1422			
120.000						.2651			
130.000						.3316			
140.000						.0332			
150.000						.1259			
160.000						.3050			
170.000						.4214			
180.000	-.0673	.0527	.2023	.2605	.2891	.3857			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.250 ALPHA (5) = .143

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3891	.3525	.2018												
70.000	.4203	.3870	.2632												
80.000	.3845	.4039	.3061												
90.000			.3447	.0757	-.1614	-.1754	-.1166	.0000	-.0586	-.0971	-.0979	-.1135	-.1009	-.1501	-.1299
100.000						-.1746	-.1711	-.1176	-.0919	-.1055	-.1152	-.1413	-.1258	-.1547	-.1166
110.000						-.2175	-.2057	-.1921	-.1499	-.1684	-.1680	-.1528	-.1390	-.1423	-.1286
120.000						-.1655								-.1429	
130.000						-.3436								-.2068	
140.000						-.5043								-.2016	
150.000						-.4778								-.2000	
160.000						-.4320								-.2136	
170.000						-.4486								-.2250	
180.000						-.4338	-.3883	-.3426	-.3081	-.2982	-.2774	-.2575	-.2395	-.2372	-.2299

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0931	-.0949	-.0881	-.0742	-.0680	-.0771	-.0617	.0000	.0170	.0467	.0432	-.0139	.0006	-.0139	.0000
100.000	-.1125	-.1232	-.1077	-.0891	-.0784	-.0939	-.0902	-.0723	-.0082	.0069	.0343	-.0228	-.0104	-.0029	-.0766
110.000	-.1290	-.1247	-.1067	-.1081	-.1069	-.1164	-.1058	-.0938	-.0576	-.0151	-.0088	-.0515	-.0301	-.0444	-.0957
120.000						-.1729								-.1601	
130.000						-.2022								-.1802	
140.000						-.2146								-.2130	
150.000						-.2081								-.2250	
160.000						-.2258								-.2294	
170.000						-.2484								-.1924	
180.000	-.2369	-.2477	-.2419	-.2560	-.2642	-.2767	-.2893	-.3001	-.2991	-.2932	-.2683	-.2191	-.1788	-.1534	-.0680

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0387		
70.000							.0290	-.0166	.0000
80.000							.0115	-.0565	-.0778
90.000	-.1135	-.1135	-.1487	-.2126	-.1149	.0000	-.0072	-.0631	-.0965
100.000	-.0989	-.1260	-.1491	-.1626	.0456	.0399			
110.000	-.1028	-.1247	-.1465	.0668	.1625	.1304			
120.000						.2569			
130.000						.2945			
140.000						-.0117			
150.000						.1006			
160.000						.2700			
170.000						.3089			
180.000	-.1022	.0170	.1694	.2200	.2569	.3313			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.250 ALPHA (6) = 2.302

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0070	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3665	.3212	.1741												
70.000	.3850	.3499	.2354												
80.000	.3253	.3634	.2795												
90.000			.3318	.0733	-.1830	-.2134	-.2218	.0000	-.0678	-.0797	-.0789	-.0910	-.0809	-.1503	-.1206
100.000						-.2105	-.2251	-.2180	-.1374	-.0963	-.0971	-.1230	-.1132	-.1512	-.1235
110.000						-.2317	-.2381	-.2636	-.2239	-.1721	-.1588	-.1503	-.1473	-.1485	-.1427
120.000						-.1679								-.1472	
130.000						-.3654								-.2518	
140.000						-.5355								-.2506	
150.000						-.5102								-.2407	
160.000						-.4700								-.2446	
170.000						-.4796								-.2574	
180.000						-.4708	-.4320	-.3801	-.3453	-.3371	-.3162	-.3031	-.2781	-.2696	-.2555

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0786	-.0869	-.0882	-.0834	-.0814	-.0894	-.0644	.0000	-.0016	.0218	.0257	-.0396	-.0406	-.0465	.0000
100.000	-.1129	-.1183	-.1091	-.1029	-.0983	-.1088	-.1024	-.0778	-.0215	-.0217	.0111	-.0514	-.0534	-.0402	-.1094
110.000	-.1405	-.1252	-.1223	-.1365	-.1328	-.1396	-.1259	-.1070	-.0735	-.0518	-.0443	-.0829	-.0827	-.0833	-.1356
120.000						-.2167								-.2232	
130.000						-.2417								-.2403	
140.000						-.2460								-.2598	
150.000						-.2375								-.2571	
160.000						-.2529								-.1915	
170.000						-.2732								-.1380	
180.000	-.2572	-.2682	-.2661	-.2746	-.2814	-.2999	-.3110	-.3155	-.3003	-.2527	-.1927	-.1598	-.1173	-.0742	.0188

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0033		
70.000							-.0188	-.0397	.0000
80.000							-.0444	-.0710	-.1019
90.000	-.1495	-.0944	-.1765	-.2487	-.1979	.0000	-.0534	-.1094	-.1154
100.000	-.1482	-.1562	-.1881	-.2118	-.0171	.0124			
110.000	-.1474	-.1707	-.1912	-.0016	.1215	.1178			
120.000						.2530			
130.000						.2693			
140.000						-.0521			
150.000						.0564			
160.000						.2200			
170.000						.2222			
180.000	-.1517	.0303	.1188	.1426	.1885	.2469			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.250 ALPHA (7) = 4.427

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3425	.2837	.1336												
70.000	.3498	.3004	.1981												
80.000	.2716	.2928	.2558												
90.000			.3158	.0687	-.1912	-.2194	-.2154	.0000	-.1319	-.1078	-.0858	-.0924	-.0805	-.1593	-.1072
100.000						-.2169	-.2273	-.2156	-.1778	-.1393	-.1161	-.1315	-.1194	-.1575	-.1204
110.000						-.2293	-.2537	-.2602	-.2401	-.2268	-.1883	-.1672	-.1657	-.1515	-.1662
120.000						-.1993								-.1500	
130.000						-.3824								-.2981	
140.000						-.5599								-.3056	
150.000						-.5428								-.2869	
160.000						-.5087								-.2890	
170.000						-.5097								-.2953	
180.000						-.4998	-.4641	-.4147	-.3839	-.3703	-.3493	-.3350	-.3128	-.3037	-.2851

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5619	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0784	-.0822	-.0888	-.0776	-.0754	-.0917	-.0845	.0000	-.0363	-.0042	.0063	-.0644	-.0632	-.0711	.0000
100.000	-.1101	-.1184	-.1149	-.1012	-.0991	-.1246	-.1233	-.1113	-.0501	-.0473	-.0103	-.0786	-.0727	-.0632	-.1336
110.000	-.1985	-.1387	-.1351	-.1494	-.1486	-.1687	-.1601	-.1430	-.1136	-.0898	-.0750	-.1159	-.1045	-.1175	-.1670
120.000						-.2642								-.2845	
130.000						-.2767								-.2977	
140.000						-.2756								-.2973	
150.000						-.2624								-.2131	
160.000						-.2752								-.1218	
170.000						-.2913								-.0790	
180.000	-.2851	-.2923	-.2872	-.2930	-.2984	-.3090	-.3108	-.2693	-.2238	-.1795	-.1399	-.1045	-.0646	-.0322	.0236

X/L	.7290	.7470	.7670	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0294		
70.000							-.0897	-.0398	.0000
80.000							-.0912	-.0799	-.1201
90.000	-.1748	-.1420	-.2037	-.2768	-.2778	.0000	-.0801	-.1381	-.1291
100.000	-.1578	-.1930	-.2192	-.2518	-.0920	-.0001			
110.000	-.1838	-.2071	-.2334	-.0816	.0853	.1231			
120.000						.2567			
130.000						.2504			
140.000						-.0728			
150.000						.0378			
160.000						.1418			
170.000						.1396			
180.000	-.1844	.0734	.1016	.1217	.1468	.2305			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.249 ALPHA (8) = 6.595

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3053	.2467	.0749												
70.000	.3063	.2563	.1429												
80.000	.2148	.2377	.2103												
90.000			.2802	.0590	-.1929	-.2201	-.1997	.0000	-.1013	-.1095	-.0933	-.0941	-.0644	-.1433	-.0764
100.000						-.2277	-.2195	-.1952	-.1450	-.1256	-.1199	-.1381	-.1114	-.1404	-.0935
110.000						-.2273	-.2277	-.2477	-.2152	.2039	-.1958	-.1842	-.1756	-.1398	-.1511
120.000						-.2062								-.1424	
130.000						-.3892								-.2473	
140.000						-.5753								-.3539	
150.000						-.5671								-.3327	
160.000						-.5338								-.3136	
170.000						-.5277								-.3150	
180.000						-.5197	-.4946	-.4516	-.4111	-.3974	-.3755	-.3529	-.3276	-.3196	-.3059

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0556	-.0737	-.0905	-.0922	-.0994	-.1171	-.1067	.0000	-.0590	-.0320	-.0134	-.0701	-.0808	-.0955	.0000
100.000	-.1005	-.1255	-.1337	-.1270	-.1290	-.1475	-.1474	-.1413	-.0855	-.0925	-.0353	-.0305	-.0868	-.0883	-.1639
110.000	-.1586	-.1603	-.1667	-.1811	-.1806	-.2002	-.1961	-.1953	-.1629	-.1439	-.0055	-.1318	-.1206	-.1465	-.2036
120.000						-.3392								-.3684	
130.000						-.3315								-.3538	
140.000						-.3169								-.2438	
150.000						-.2973								-.1443	
160.000						-.3056								-.0951	
170.000						-.3029								-.0646	
180.000	-.3057	-.3131	-.3053	-.3037	-.2892	-.2546	-.2178	-.1866	-.1631	-.1366	-.0934	-.0812	-.0608	-.0446	-.0158

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8520	.9000	.9400
PHI									
60.000							-.0789		
70.000							-.1167	-.0422	.0000
80.000							-.1263	-.1003	-.1540
90.000	-.2030	-.1710	-.2381	-.3059	-.3147	.0000	-.1049	-.1656	-.1446
100.000	-.2016	-.2224	-.2454	-.2815	-.1672	-.0123			
110.000	-.2118	-.2263	-.2701	-.1240	.0488	.0981			
120.000						.2244			
130.000						.2233			
140.000						-.0614			
150.000						.0624			
160.000						.1020			
170.000						.0564			
180.000	-.2163	-.0712	.0855	.1115	.1431	.2514			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (8) = 1.250 ALPHA (8) = 8.691

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.2613	.2107	.0391												
70.000	.2456	.2138	.0857												
80.000	.1631	.1864	.1268												
90.000			.2319	.0529	-.1920	-.2179	-.1930	.0000	-.0709	-.0836	-.0603	-.0329	-.0183	-.1283	-.0782
100.000						-.2167	-.2199	-.1750	-.1112	-.0977	-.0891	-.0897	-.0761	-.1187	-.0969
110.000						-.2226	-.2248	-.2375	-.1878	-.1813	-.1707	-.1574	-.1419	-.1306	-.1594
120.000						-.2149								-.1370	
130.000						-.3982								-.3836	
140.000						-.5900								-.3819	
150.000						-.5896								-.3624	
160.000						-.5602								-.3369	
170.000						-.5463								-.3313	
180.000						-.5411	-.5177	-.4720	-.4352	-.4215	-.3988	-.3719	-.3451	-.3363	-.3178

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0621	-.0824	-.1007	.1001	-.1073	-.1254	-.1191	.0000	-.0756	-.3156	-.0020	-.0593	-.1003	-.1181	.0000
100.000	-.1119	-.1398	-.1464	-.1386	-.1386	-.1665	-.1678	-.1597	-.1051	-.0829	-.0267	-.0918	-.1140	-.1213	-.1963
110.000	-.1784	-.1805	-.1501	-.2078	-.2097	-.2331	-.2284	-.2191	-.1831	-.1538	-.1074	-.1567	-.1595	-.1931	-.2429
120.000						-.4730								-.5163	
130.000						-.3899								-.3097	
140.000						-.3646								-.1844	
150.000						-.3376								-.1266	
160.000						-.3139								-.0918	
170.000						-.2904								-.0771	
180.000	-.3178	-.3188	-.2872	-.2535	-.2161	-.1866	-.1694	-.1496	-.1308	-.1152	-.0845	-.0694	-.0621	-.0627	-.0646

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8820	.9000	.9400
PHI									
60.000							-.1201		
70.000							-.1582	-.0703	.0000
80.000							-.1615	-.1199	-.1802
90.000	-.2325	-.1578	-.2710	-.3296	-.3410	.0000	-.1317	-.1729	-.1741
100.000	-.2303	-.2304	-.2759	-.2979	-.1902	-.0597			
110.000	-.2370	-.2632	-.2985	-.0912	-.0080	.0616			
120.000						.2151			
130.000						.1863			
140.000						-.0417			
150.000						.0039			
160.000						.1179			
170.000						-.0385			
180.000	-.2563	-.1138	.0515	.0972	.1337	.3116			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = .399 ALPHA (1) = -8.564

SECTION (1)=B. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5474	.5075	.3550												
70.000	.6118	.5433	.4095												
80.000	.6065	.5528	.4423												
90.000			.4672	.2127	-.0182	-.0410	-.0539	.0000	-.0164	-.0530	-.0448	-.0332	.0048	-.0144	-.0012
100.000						-.0418	-.0603	-.0624	-.0437	-.0530	-.0433	-.0315	-.0012	-.0176	.0125
110.000						-.0932	-.0857	-.0975	-.0962	-.0837	-.0506	-.0148	.0022	-.1054	.0179
120.000						.0028								-.1439	
130.000						-.1479								-.0064	
140.000						-.2392								-.0211	
150.000						-.2145								-.0330	
160.000						-.1868								-.0489	
170.000						-.2092								-.0567	
180.000						-.1871	-.1414	-.1102	-.0891	-.0900	-.0811	-.0773	-.0695	-.0669	-.0645

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0310	.0298	.0382	.0463	.0515	.0338	.0457	.0000	.0855	.1332	.1546	.1305	.0984	.1143	.0000
100.000	.0218	.0119	.0259	.0396	.0459	.0302	.0289	.0364	.0708	.0855	.1417	.1234	.0958	.1160	.0921
110.000	.0244	.0280	.0358	.0349	.0345	.0265	.0295	.0364	.0500	.0751	.1103	.1128	.1012	.1009	.0839
120.000						.0281								.0413	
130.000						-.0049								.0268	
140.000						-.0212								-.0068	
150.000						-.0149								-.0331	
160.000						-.0372								-.0601	
170.000						-.0597								-.0977	
180.000	-.0706	-.0786	-.0676	-.0767	-.0825	-.0941	-.1024	-.1092	-.1164	-.1207	-.1219	-.1202	-.1207	-.1175	-.0921

X/L	.7290	.7470	.7570	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2311		
70.000							.2100	.1554	.0000
80.000							.1834	.1048	.0885
90.000	.0598	-.0943	.0039	.0392	.1456	.0000	.1606	.0853	.0760
100.000	.0807	.0360	.0403	.1591	.2332	.1902			
110.000	.0759	.0617	.0905	.3069	.3161	.2328			
120.000						.3402			
130.000						.4604			
140.000						.1593			
150.000						.2018			
160.000						.4726			
170.000						.6578			
180.000	.0719	.0699	.1187	.2852	.3625	.4234			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.403 ALPHA (2) = -6.376

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3010	.4588	.3308												
70.000	.3577	.4956	.3892												
80.000	.3349	.4980	.4219												
90.000			.4520	.1960	-.0321	-.0564	-.0649	.0000	-.0161	-.0520	-.0475	-.0528	-.0165	-.0396	-.0201
100.000						-.0588	-.0686	-.0739	-.0445	-.0557	-.0561	-.0565	-.0225	-.0398	-.0084
110.000						-.0925	-.0931	-.1064	-.1029	-.1014	-.0772	-.0403	-.0203	-.0756	-.0083
120.000						-.0217								-.1078	
130.000						-.1715								-.0465	
140.000						-.2776								-.0574	
150.000						-.2542								-.0680	
160.000						-.2199								-.0827	
170.000						-.2406								-.0929	
180.000						-.2245	-.1810	-.1516	-.1305	-.1298	-.1186	-.1141	-.1039	-.1039	-.0959

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6370	.6540	.6730	.6880	.7100
PHI															
90.000	.0101	.0046	.0104	.0203	.0198	.0058	.0135	.0000	.0441	.0958	.1235	.1020	.0668	.0837	.0050
100.000	-.0018	-.0170	-.0030	.0106	.0157	-.0030	-.0005	-.0009	.0325	.0487	.1124	.0990	.0723	.0799	.0652
110.000	-.0010	-.0015	.0050	.0050	.0005	-.0092	-.0035	.0006	.0151	.0347	.0747	.0822	.0736	.0504	.0600
120.000						-.0163								-.0012	
130.000						-.0452								-.0160	
140.000						-.0582								-.0477	
150.000						-.0560								-.0731	
160.000						-.0714								-.1003	
170.000						-.0916								-.1033	
180.000	-.1018	-.1104	-.1033	-.1137	-.1159	-.1243	-.1345	-.1432	-.1441	-.1511	-.1567	-.1554	-.1556	-.1547	-.1268

X/L	.7290	.7470	.7650	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1785		
70.000							.1574	.1176	.0000
80.000							.1325	.0689	.0476
90.000	.0230	-.0315	.0155	-.0116	.0882	.0000	.1075	.0529	.0302
100.000	.0256	.0148	.0202	.0912	.1892	.1482			
110.000	.0450	.0305	.0351	.2497	.2817	.2071			
120.000						.3341			
130.000						.3313			
140.000						.0918			
150.000						.0239			
160.000						.3905			
170.000						.5370			
180.000	.0387	-.0298	.0725	.2182	.3023	.4218			

DATE 24 MAR 74 TABULATED SOURCE DATA - [illegible] CASE 1003

AMES [illegible]-FT FUSELAGE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.402 ALPHA () = -4.2[illegible]

SECTION (1)FUSELAGE INCREMENT VARIABLE CP

X/L	.0670	.1160	.1640	.2050	.2470	.2840	.3020	.3310	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4855	.4296	.2755												
70.000	.5077	.4555	.3586												
80.000	.4751	.4573	.3625												
90.000			.4265	.1883	-.0373	-.0671	-.0754	.0000	-.0204	-.0548	-.0492	-.0567	-.0350	-.0643	-.0410
100.000						-.0706	-.0852	-.0840	-.0525	-.0567	-.0670	-.0739	-.0466	-.0626	-.0286
110.000						-.1033	-.1056	-.1176	-.1139	-.1079	-.0969	-.0680	-.0444	-.0704	-.0302
120.000						-.0362								-.0907	
130.000						-.1972								-.0825	
140.000						-.2222								-.0332	
150.000						-.2643								-.1004	
160.000						-.2543								-.1170	
170.000						-.2747								-.1257	
180.000						-.2[illegible]	-.2200	-.1886	-.1671	-.1621	-.1544	-.1501	-.1345	-.1341	-.1287

X/L	.4500	.4680	.4860	.5030	.5240	.5410	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7120
PHI															
90.000	-.0140	-.0174	-.0146	-.0058	-.0030	-.0172	-.0067	.0000	.0138	.0611	.0907	.0726	.0337	.0449	.0000
100.000	-.0245	-.0382	-.0261	-.0151	-.0099	-.0263	-.0264	-.0129	.0050	.0116	.0753	.0600	.0425	.0[illegible]	.0322
110.000	-.0252	-.0237	-.0182	-.0203	-.0257	-.0376	-.0306	-.0242	-.0145	-.0025	.0373	.0474	.0431	.[illegible]	.0228
120.000						-.0536								-.0[illegible]	
130.000						-.0866								-.0751	
140.000						-.0991								-.0853	
150.000						-.1013								-.1083	
160.000						-.1073								-.1349	
170.000						-.1319								-.1702	
180.000	-.1302	-.1383	-.1357	-.1415	-.1490	-.1671	-.1643	-.1753	-.1789	-.1868	-.1893	-.1872	-.1903	-.1963	-.1633

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1267		
70.000							.1125	.0807	.0000
80.000							.0956	.0347	.0104
90.000	-.0055	-.0457	-.0157	-.0562	.0333	.0000	.0708	.0145	.0064
100.000	-.0002	-.0211	-.0132	.0279	.1486	.1233			
110.000	.0112	-.0062	-.0012	.2002	.2526	.1879			
120.000						.3229			
130.000						.3952			
140.000						.0347			
150.000						-.0548			
160.000						.3023			
170.000						.5236			
180.000	.0121	-.0837	.0954	.1703	.2378	.3498			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.400 ALPHA (4) = -2.166

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

Y/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4226	.3797	.2673												
70.000	.4643	.4159	.3249												
80.000	.4192	.4230	.3747												
90.000			.4207	.1715	-.0643	-.0937	-.1145	-.0920	-.0462	-.0469	-.0566	-.0454	-.0338	-.0819	-.0555
100.000						-.0976	-.1106	-.1160	-.0755	-.0727	-.0518	-.0688	-.0553	-.0810	-.0473
110.000						-.1197	-.1287	-.1478	-.1334	-.1364	-.1071	-.0825	-.0661	-.0773	-.[illegible]
120.000						-.0584								-.0862	
130.000						-.2252								-.1769	
140.000						-.3691								-.1312	
150.000						-.3355								-.1360	
160.000						-.2905								-.1501	
170.000						-.3177								-.1679	
180.000						-.2943	-.2590	-.2270	-.2039	-.2071	-.1847	-.1853	-.1741	-.1705	-.1563

Y/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7150
PHI															
90.000	-.0269	-.0320	-.0318	-.0285	-.0318	-.0437	-.0345	-.0000	-.0143	.0321	.0537	.0448	.0343	-.0028	-.0051
100.000	-.0412	-.0541	-.0485	-.0391	-.0570	-.0530	-.0543	-.0456	-.0250	-.0160	.0433	.0392	.0310	-.0026	-.0077
110.000	-.0461	-.0461	-.0426	-.0500	-.0517	-.0666	-.0593	-.0515	-.0472	-.0326	.0065	.0202	.0133	-.0194	-.0160
120.000						-.0920								-.0825	
130.000						-.1183								-.0957	
140.000						-.1323								-.1244	
150.000						-.1267								-.1443	
160.000						-.1367								-.1755	
170.000						-.1691								-.2035	
180.000	-.1590	-.1636	-.1614	-.1719	-.1755	-.1910	-.2010	-.2071	-.2127	-.2192	-.2184	-.2190	-.2114	-.2143	-.1918

Y/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.8900	.9140
PHI									
60.000							.0824		
70.000							.0746	.0437	.0090
80.000							.0525	.0028	-.0227
90.000	-.0361	-.0833	-.0471	-.0944	-.0329	.0000	.0387	-.0135	-.0375
100.000	-.0551	-.0973	-.0516	-.0441	.1049	.1147			
110.000	-.0195	-.0466	-.0922	.1567	.2759	.1751			
120.000						.3193			
130.000						.3564			
140.000						.3274			
150.000						.2754			
160.000						.1913			
170.000						.4208			
180.000	-.0714	-.0447	.0924	.1313	.1472	.2969			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB128)

MACH (9) = 1.400 ALPHA (5) = .000

SECTION 1=AFB, FUSELAGE DEPENDENT VARIABLE CP

X/L	.1000	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3100	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3920	.3660	.2932												
70.000	.4535	.3906	.2955												
80.000	.4677	.3908	.3454												
90.000			.4145	.1745	-.0755	-.1053	-.1237	.0000	-.1077	-.1353	-.0673	-.0442	-.0269	-.0901	-.0551
100.000						-.1078	-.1168	-.1336	-.1264	-.1398	-.1198	-.0787	-.0550	-.0811	-.0555
110.000						-.1189	-.1310	-.1564	-.1648	-.1831	-.1450	-.1263	-.0823	-.0415	-.0689
120.000						-.1332								-.0045	
130.000						-.2537								-.1762	
140.000						-.3346								-.1326	
150.000						-.3324								-.1913	
160.000						-.3236								-.1993	
170.000						-.3333								-.2034	
180.000						-.3257	-.2974	-.2636	-.2443	-.2324	-.2186	-.2141	-.2043	-.2034	-.1983

X/L	.4610	.4680	.4860	.5050	.5240	.5430	.5610	.5800	.5990	.6170	.6360	.6540	.6730	.6920	.7110
PHI															
90.000	-.0329	-.0373	-.0423	-.0401	-.0446	-.0550	-.0544	-.0000	-.0374	.0004	.0374	.0131	-.0221	-.0201	.0000
100.000	.0514	-.0624	.0441	-.0528	-.0554	-.0734	-.0762	-.0733	-.0446	-.0403	.0197	.0151	-.0127	-.0178	.0000
110.000	-.0639	-.0635	-.0659	-.0721	-.0780	-.0914	-.0943	-.0812	-.0735	-.0618	-.0135	-.0121	-.0135	-.0410	-.0709
120.000						-.1312								-.1393	
130.000						-.1478								-.1417	
140.000						-.1576								-.1654	
150.000						-.1527								-.1635	
160.000						-.1665								-.2010	
170.000						-.1891								-.2343	
180.000	-.1944	-.1947	-.1869	-.1919	-.2016	-.2104	-.2257	-.2314	-.2372	-.2403	-.2452	-.2467	-.2473	-.2459	-.2152

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							.0458		
90.000							.0352	.0163	.0000
100.000	-.0803	-.1197	-.0796	-.1233	-.1027	.0000	.0118	-.0269	-.0558
110.000	-.0573	-.1004	-.0770	-.0953	.0542	.0809	.0120	-.0504	-.0682
120.000	-.0462	-.0817	-.0865	.0602	.2117	.1638			
130.000						.3000			
140.000						.3132			
150.000						-.0950			
160.000						-.0265			
170.000						.1002			
180.000	-.0453	-.0757	.0742	.1091	.1448	.2461			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (3) = 1.400 ALPHA (6) = 2.229

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3904	.3554	.1858												
70.000	.4074	.3599	.2431												
80.000	.3393	.3522	.2989												
90.000			.3819	.1763	-.0040	-.1172	-.1357	.0000	-.1170	-.1509	-.1241	-.1000	-.0627	-.1155	-.0647
100.000						-.1169	-.1305	-.1409	-.1359	-.1490	-.1555	-.1430	-.1043	-.1188	-.0724
110.000						-.1225	-.1380	-.1692	-.1765	-.1959	-.1998	-.1878	-.1411	-.0995	-.1027
120.000						-.0819								-.0917	
130.000						-.2492								-.2369	
140.000						.0000								-.2480	
150.000						-.4021								-.2331	
160.000						-.3705								-.2330	
170.000						-.3593								-.2292	
180.000						-.3533	-.3340	-.2987	-.2680	-.2611	-.2518	-.2419	-.2318	-.2322	-.2242

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0382	-.0424	-.0491	-.0477	-.0495	-.0659	-.0622	.0000	-.0439	-.0055	.0252	.0095	-.0392	-.0345	.0000
100.000	-.0646	-.0787	-.0746	-.0614	-.0629	-.0848	-.0887	-.0868	-.0613	-.0466	.0076	-.0043	-.0292	-.0372	-.0514
110.000	-.0950	-.0876	-.0809	-.0874	-.0949	-.1164	-.1100	-.1038	-.0917	-.0756	-.0396	-.0349	-.0424	-.0759	-.0807
120.000						-.1714								-.1814	
130.000						-.1830								-.1848	
140.000						-.1813								-.1975	
150.000						-.1772								-.2097	
160.000						-.1908								-.2275	
170.000						-.2085								-.2549	
180.000	-.2270	-.2294	-.2177	-.2201	-.2244	-.2331	-.2400	-.2510	-.2542	-.2601	-.2643	-.2632	-.2594	-.2539	-.1632

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0043		
70.000							-.0193	-.0118	.0000
80.000							-.0272	-.0623	-.0786
90.000	-.0805	-.0572	-.1103	-.1569	-.1606	.0000	-.0084	-.0833	-.0974
100.000	-.0796	-.1060	-.1105	-.1265	-.0122	.0582			
110.000	-.0752	-.1047	-.1272	-.0315	.1543	.1537			
120.000						.2909			
130.000						.2694			
140.000						-.1469			
150.000						-.0051			
160.000						.0960			
170.000						.1427			
180.000	-.0741	-.1036	.0521	.0900	.1158	.1831			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.401 ALPHA (7) = 4.282

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3749	.3289	.1490												
70.000	.3757	.3326	.1940												
80.000	.2974	.3150	.2316												
90.000			.3188	.1605	-.0915	-.1276	-.1424	.0000	-.1155	-.1427	-.1188	-.1164	-.0961	-.1422	-.0885
100.000						-.1316	-.1362	-.1489	-.1394	-.1450	-.1459	-.1469	-.1315	-.1510	-.1030
110.000						-.1284	-.1418	-.1736	-.1814	-.1994	-.1999	-.1811	-.1687	-.1238	-.1411
120.000						-.0990								-.1088	
130.000						-.2632								-.2761	
140.000						-.4314								-.2828	
150.000						-.4307								-.2732	
160.000						-.4039								-.2574	
170.000						-.3875								-.2531	
180.000						-.3834	-.3658	-.3297	-.2955	-.2861	-.2708	-.2639	-.2529	-.2522	-.2475

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6301	.6540	.6730	.6880	.7100
PHI															
90.000	-.0576	-.0578	-.0615	-.0569	-.0628	-.0754	-.0669	.0000	-.0450	-.0101	.0143	-.0052	-.0609	-.0423	.0000
100.000	-.0896	-.0957	-.0912	-.0784	-.0788	-.0981	-.0981	-.0935	-.0690	-.0605	-.0072	-.0138	-.0518	-.0522	-.0740
110.000	-.1308	-.1199	-.1124	-.1162	-.1143	-.1334	-.1292	-.1279	-.1190	-.0962	-.0567	-.0522	-.0688	-.0973	-.1061
120.000						-.2152								-.2292	
130.000						-.2208								-.2292	
140.000						-.2138								-.2322	
150.000						-.2044								-.2411	
160.000						-.2180								-.2530	
170.000						-.2301								-.2615	
180.000	-.2461	-.2502	-.2411	-.2439	-.2457	-.2546	-.2611	-.2682	-.2754	-.2811	-.2779	-.2690	-.2267	-.1585	-.0690

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0598		
70.000							-.0652	-.0419	.0000
80.000							-.0553	-.0951	-.0922
90.000	-.0999	-.0718	-.1382	-.1833	-.1996	.0000	-.0284	-.1119	-.1225
100.000	-.0986	-.1275	-.1375	-.1592	-.1133	.0391			
110.000	-.0988	-.1309	-.1598	-.1290	.1218	.1532			
120.000						.2793			
130.000						.2285			
140.000						-.1658			
150.000						-.0183			
160.000						.1014			
170.000						.0976			
180.000	-.1007	-.1326	.0423	.0623	.0969	.1803			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.400 ALPHA (8) = 6.426

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2540	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3453	.2952	.1169												
70.000	.3257	.2962	.1588												
80.000	.2516	.2733	.1839												
90.000			.2208	.1394	-.1024	-.1397	-.1455	.0000	-.1123	-.1265	-.0959	-.0944	-.0755	-.1422	-.0922
100.000						-.1433	-.1426	-.1461	-.1345	-.1358	-.1231	-.1304	-.1143	-.1366	-.1050
110.000						-.1349	-.1437	-.1734	-.1735	-.1900	-.1894	-.1771	-.1613	-.1295	-.1485
120.000						-.1125								-.1201	
130.000						-.2748								-.3218	
140.000						-.4488								-.3213	
150.000						-.4544								-.3094	
160.000						-.4299								-.2888	
170.000						-.4124								-.2800	
180.000						-.4116	-.3972	-.3621	-.3236	-.3079	-.2977	-.2871	-.2767	-.2759	-.2667

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0867	-.0896	-.0719	-.0674	-.0893	-.0771	-.0675	.0000	-.0346	-.0086	.0090	-.0206	-.0786	-.0688	.0000
100.000	-.1020	-.1170	-.1101	-.0944	-.0934	-.1096	-.1063	-.0988	-.0652	-.0624	-.0104	-.0306	-.0769	-.0729	-.1074
110.000	-.1493	-.1445	-.1402	-.1486	-.1436	-.1607	-.1496	-.1350	-.1209	-.0977	-.0799	-.0871	-.1052	-.1312	-.1440
120.000						-.2915								-.3111	
130.000						-.2722								-.2786	
140.000						-.2515								-.2754	
150.000						-.2347								-.2707	
160.000						-.2432								-.2439	
170.000						-.2573								-.1550	
180.000	-.2643	-.2642	-.2554	-.2599	-.2599	-.2717	-.2764	-.2875	-.2845	-.2673	-.2224	-.1652	-.1244	-.0399	-.0632

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1372		
70.000							-.1179	-.0693	.0000
80.000							-.0888	-.1252	-.1096
90.000	-.1299	-.1087	-.1705	-.2121	-.2303	.0000	-.0545	-.1372	-.1380
100.000	-.1284	-.1616	-.1686	-.1965	-.2134	.0092			
110.000	-.1281	-.1639	-.1977	-.1937	.0712	.1463			
120.000						.2500			
130.000						.1822			
140.000						-.1554			
150.000						.0342			
160.000						.0501			
170.000						-.0070			
180.000	-.1356	-.0937	.0282	.0525	.0854	.1769			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (9) = 1.400 ALPHA (9) = 8.606

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3086	.2558	.0840												
70.000	.2691	.2532	.1238												
80.000	.1956	.2199	.1453												
90.000			.1681	.1167	-.1096	-.1455	-.1528	.0000	-.1059	-.1044	-.0721	-.0678	-.0481	-.1351	-.0825
100.000						-.1425	-.1507	-.1490	-.1309	-.1145	-.1003	-.0996	-.0925	-.1204	-.0975
110.000						-.1350	-.1492	-.1791	-.1754	-.1847	-.1737	-.1509	-.1453	-.1217	-.1475
120.000						-.1186								-.1197	
130.000						-.2807								-.3671	
140.000						-.4564								-.3485	
150.000						-.4682								-.3444	
160.000						-.4478								-.3181	
170.000						-.4269								-.3043	
180.000						-.4267	-.4198	-.3909	-.3518	-.3414	-.3281	-.3181	-.3043	-.2982	-.2830

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0610	-.0690	-.0677	-.0511	-.0474	-.0608	-.0497	.0000	-.0256	-.0165	-.0030	-.0367	-.0945	-.0777	.0000
100.000	-.1003	-.1173	-.1117	-.0853	-.0794	-.0991	-.0918	-.0911	-.0579	-.0779	-.0347	-.0535	-.0981	-.0792	-.1181
110.000	-.1563	-.1513	-.1494	-.1464	-.1371	-.1537	-.1458	-.1439	-.1301	-.1184	-.1107	-.1128	-.1315	-.1401	-.1620
120.000						-.4077								-.4205	
130.000						-.3410								-.3135	
140.000						-.2913								-.3103	
150.000						-.2640								-.2358	
160.000						-.2692								-.1613	
170.000						-.2757								-.1143	
180.000	-.2774	-.2792	-.2725	-.2735	-.2801	-.2851	-.2772	-.2504	-.1915	-.1649	-.1362	-.1260	-.1113	-.1022	-.0855

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1999		
70.000							-.1812	-.0853	.0000
80.000							-.1290	-.1427	-.1399
90.000	-.1389	-.1224	-.1929	-.2360	-.2565	.0000	-.0932	-.1615	-.1496
100.000	-.1383	-.1743	-.1918	-.2283	-.2552	-.0328			
110.000	-.1473	-.1815	-.2370	-.2289	.0162	.1290			
120.000						.2224			
130.000						.1217			
140.000						-.1513			
150.000						-.0319			
160.000						.0625			
170.000						-.0731			
180.000	-.1623	-.1931	-.0015	.0353	.0784	.2386			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (10) = 1.301 ALPHA (1) = -8.566

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5583	.5137	.3584												
70.000	.6074	.5481	.4175												
80.000	.5953	.5485	.4593												
90.000			.4885	.2322	.0553	.0054	-.0143	.0000	.0297	-.0017	.0026	.0072	.0342	.0172	.0317
100.000						.0052	-.0134	-.0277	-.0088	-.0045	-.0004	.0044	.0310	.0146	.0429
110.000						-.0446	-.0411	-.0527	-.0602	-.0500	-.0101	.0198	.0364	-.1954	.0479
120.000						.0369								-.2804	
130.000						-.1056								.0200	
140.000						-.2012								.0111	
150.000						-.1712								.0009	
160.000						-.1416								-.0104	
170.000						-.1628								-.0244	
180.000						-.1468	-.1084	-.0817	-.0602	-.0557	-.0427	-.0418	-.0292	-.0338	-.0205

X/L	.4500	.4680	.4860	.5050	.5240	.5450	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0581	.0609	.0700	.0787	.0815	.0737	.0796	.0000	.1073	.1431	.1676	.1504	.1175	.1147	.0000
100.000	.0516	.0434	.0618	.0724	.0772	.0652	.0636	.0694	.0963	.1010	.1518	.1463	.1266	.1184	.1171
110.000	.0577	.0607	.0711	.0681	.0691	.0601	.0679	.0731	.0789	.0922	.1155	.1314	.1266	.1064	.1100
120.000						.0626								.0668	
130.000						.0351								.0516	
140.000						.0189								.0167	
150.000						.0260								-.0073	
160.000						.0050								-.0310	
170.000						-.0154								-.0650	
180.000	-.0228	-.0288	-.0220	-.0290	-.0360	-.0469	-.0571	-.0488	-.0740	-.0796	-.0813	-.0807	-.0847	-.0828	-.0580

X/L	.7730	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.2344		
70.000							.2110	.1761	.0000
80.000							.1854	.1286	.1075
90.000	.0705	-.0774	.0825	.0924	.1694	.0000	.1580	.1104	.0948
100.000	.0785	.0844	.0840	.1909	.2456	.1943			
110.000	.1029	.0887	.1182	.3137	.3228	.2417			
120.000						.3737			
130.000						.4992			
140.000						.2035			
150.000						.1089			
160.000						.4334			
170.000						.6276			
180.000	.1029	.0907	.0005	.2440	.3395	.4375			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (10) = 1.502 ALPHA (2) = -6.355

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.5250	.4772	.3281												
70.000	.5647	.5032	.3918												
80.000	.5383	.5002	.4383												
90.000			.4774	.2258	.0129	-.0075	-.0185	.0000	.0060	-.0118	-.0044	-.0090	.0103	-.0101	.0034
100.000						-.0068	-.0194	-.0344	-.0268	-.0246	-.0168	-.0199	.0040	-.0094	.0157
110.000						-.0673	-.0535	-.0578	-.0663	-.0751	-.0509	-.0156	.0069	-.1128	.0172
120.000						.0120								-.1963	
130.000						-.1311								-.0258	
140.000						-.2388								-.0341	
150.000						-.2120								-.0411	
160.000						-.1760								-.0559	
170.000						-.1953								-.0626	
180.000						-.1832	-.1502	-.1233	-.0990	-.0955	-.0860	-.0844	-.0707	-.0694	-.0596

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0315	.0298	.0368	.0468	.0480	.0365	.0474	.0000	.0669	.1029	.1359	.1262	.0980	.0863	.0000
100.000	.0213	.0129	.0279	.0405	.0472	.0307	.0314	.0355	.0600	.0626	.1205	.1192	.1012	.0900	.0890
110.000	.0214	.0270	.0365	.0379	.0359	.0268	.0327	.0352	.0448	.0567	.0821	.1012	.0991	.0761	.0771
120.000						.0216								.0279	
130.000						-.0039								.0149	
140.000						-.0159								-.0192	
150.000						-.0116								-.0432	
160.000						-.0302								-.0672	
170.000						-.0514								-.1014	
180.000	-.0588	-.0639	-.0547	-.0635	-.0702	-.0791	-.0902	-.0731	-.1032	-.1084	-.1096	-.1115	-.1154	-.1180	-.0956

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1877		
70.000							.1682	.1411	.0000
80.000							.1419	.0940	.0688
90.000	.0548	-.0687	.0534	.0352	.1207	.0000	.1209	.0688	.0543
100.000	.0563	.0229	.0496	.1384	.2134	.1775			
110.000	.0727	.0474	.0630	.2702	.3000	.2328			
120.000						.3668			
130.000						.4575			
140.000						.1367			
150.000						.0290			
160.000						.3438			
170.000						.5124			
180.000	.0715	.0004	-.0253	.1879	.2736	.3607			

AMES 66-650 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (10) = 1.502 ALPHA (3) = -4.319

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4937	.4396	.2963												
70.000	.5249	.4595	.3595												
80.000	.4841	.4686	.4062												
90.000			.4619	.2203	-.0007	-.0404	-.0400	.0000	-.0083	-.0348	-.0114	-.0140	-.0014	-.0322	-.0099
100.000						-.0437	-.0483	-.0452	-.0307	-.0409	-.0348	-.0357	-.0150	-.0309	-.0040
110.000						-.0666	-.0717	-.0830	-.0711	-.0841	-.0787	-.0427	-.0206	-.0765	-.0067
120.000						-.0042								-.1365	
130.000						-.1497								-.0690	
140.000						-.2685								-.0743	
150.000						-.2452								-.0771	
160.000						-.2073								-.0863	
170.000						-.2238								-.0933	
180.000						-.2145	-.1872	-.1603	-.1360	-.1301	-.1190	-.1172	-.1037	-.1004	-.0891

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0146	.0096	.0114	.0161	.0203	.0120	.0183	.0000	.0370	.0652	.1058	.0954	.0737	.0504	.0000
100.000	.0019	-.0091	-.0001	.0109	.0159	.0038	.0053	.0088	.0277	.0268	.0862	.0895	.0750	.0628	.0625
110.000	-.0036	.0001	.0047	.0051	.0064	-.0036	.0025	.0073	.0190	.0248	.0476	.0684	.0689	.0502	.0433
120.000						-.0145								-.0129	
130.000						-.0354								-.0271	
140.000						-.0468								-.0579	
150.000						-.0442								-.0794	
160.000						-.0626								-.1027	
170.000						-.0797								-.1332	
180.000	-.0872	-.0922	-.0842	-.0922	-.0990	-.1088	-.1194	-.1048	-.1320	-.1384	-.1400	-.1417	-.1469	-.1481	-.1265

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.1400		
70.000							.1279	.1112	.0000
80.000							.1012	.0595	.0389
90.000	.0313	-.1110	.0207	-.0148	.0586	.0000	.0932	.0363	.0[illegible]
100.000	.0289	-.0122	.0244	.0521	.1773	.1578			
110.000	.0508	.0135	.0192	.2196	.2837	.2251			
120.000						.3690			
130.000						.4399			
140.000						.0722			
150.000						-.0325			
160.000						.2602			
170.000						.4753			
180.000	.0470	.0290	-.0088	.1449	.2132	.2781			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (10) = 1.502 ALPHA (4) = -2.107

SECTION (11)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4638	.4086	.2595												
70.000	.4811	.4266	.3197												
80.000	.4285	.4259	.3735												
90.000			.4406	.2313	-.0073	-.0474	-.0665	.0000	-.0559	-.0836	-.0407	-.0181	.0016	-.0407	-.0165
100.000						-.0450	-.0581	-.0778	-.0760	-.0862	-.0800	-.0645	-.0235	-.0375	-.0106
110.000						-.0559	-.0696	-.0936	-.1093	-.1294	-.1275	-.0977	-.0503	-.0591	-.0138
120.000						-.0134								-.0979	
130.000						-.1618								-.1239	
140.000						-.2984								-.1288	
150.000						-.2756								-.1259	
160.000						-.2396								-.1296	
170.000						-.2516								-.1320	
180.000						-.2446	-.2238	-.1947	-.1679	-.1626	-.1483	-.1440	-.1336	-.1324	-.1276

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	.0082	.0008	-.0014	.0003	-.0038	-.0198	-.0072	.0000	.0073	.0331	.0715	.0602	.0439	.0162	.0000
100.000	-.0045	-.0200	-.0143	-.0100	-.0102	-.0230	-.0228	-.0190	.0051	-.0054	.0533	.0570	.0416	.0325	.0277
110.000	-.0143	-.0143	-.0139	-.0217	-.0220	-.0338	-.0258	-.0204	-.0102	-.0061	.0118	.0346	.0370	.0181	-.0061
120.000						-.0538								-.0545	
130.000						-.0751								-.0712	
140.000						-.0826								-.0995	
150.000						-.0777								-.1208	
160.000						-.0922								-.1394	
170.000						-.1093								-.1683	
180.000	-.1237	-.1239	-.1156	-.1182	-.1243	-.1357	-.1454	-.1540	-.1587	-.1673	-.1722	-.1737	-.1791	-.1806	-.1593

X/L	.7290	.7470	.7570	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0913		
70.000							.0770	.0713	.0000
80.000							.0613	.0272	.0053
90.000	.0053	-.1059	-.0131	-.0494	-.0096	.0000	.0685	.0053	-.0120
100.000	.0021	-.0347	-.0239	-.0087	.1282	.1334			
110.000	.0255	-.0057	-.0239	.1471	.2536	.2037			
120.000						.3518			
130.000						.3978			
140.000						.0212			
150.000						-.0646			
160.000						.1762			
170.000						.4188			
180.000	.0201	-.0599	.0006	.0974	.1659	.2819			

AMES 66-030 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (10) = 1.502 ALPHA (S) = -.007

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4536	.3908	.2415												
70.000	.4519	.4055	.2867												
80.000	.3764	.3972	.3357												
90.000			.4 22	.2300	-.0027	-.0591	-.0771	.0000	-.0643	-.1001	-.0951	-.0917	-.0294	-.0610	-.0257
100.000						-.0567	-.0691	-.0853	-.0832	-.0940	-.1068	-.1266	-.0868	-.0807	-.0289
110.000						-.0815	-.0776	-.1033	-.1125	-.1376	-.1405	-.1409	-.1326	-.0869	-.0447
120.000						-.0244								-.0827	
130.000						-.1812								-.1689	
140.000						-.3231								-.1765	
150.000						-.3028								-.1613	
160.000						-.2732								-.1608	
170.000						-.2767								-.1606	
180.000						-.2717	-.2524	-.2239	-.1949	-.1893	-.1726	-.1704	-.1613	-.1597	-.1510

X/L	.4500	.4680	.4860	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0029	-.0067	-.0088	-.0051	-.0108	-.0269	-.0256	.0000	-.0091	.0134	.0520	.0339	.0159	-.0091	.0000
100.000	-.0169	-.0289	-.0232	-.0171	-.0209	-.0379	-.0414	-.0404	-.0123	-.0224	.0322	.0294	.0149	.0058	-.0036
110.000	-.0304	-.0293	-.0257	-.0348	-.0401	-.0540	-.0519	-.0430	-.0389	-.0301	-.0115	.0049	.0075	-.0123	-.0377
120.000						-.0865								-.0948	
130.000						-.1023								-.1062	
140.000						-.1077								-.1306	
150.000						-.1049								-.1464	
160.000						-.1190								-.1687	
170.000						-.1390								-.1957	
180.000	-.1533	-.1579	-.1454	-.1480	-.1500	-.1623	-.1722	-.1795	-.1839	-.1923	-.1968	-.1995	-.2026	-.2021	-.1815

X/L	.7290	.7470	.7870	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							.0511		
70.000							.0389	.0413	.0000
80.000							.0252	-.0006	-.0249
90.000	-.0193	-.1208	-.0428	-.0765	-.0840	.0000	.0450	-.0228	-.0413
100.000	-.0232	-.0593	-.0409	-.0467	.0428	.1107			
110.000	-.0074	-.0381	-.0547	.0706	.2213	.1893			
120.000						.2405			
130.000						.3557			
140.000						-.0327			
150.000						-.1348			
160.000						.0745			
170.000						.3084			
180.000	-.0161	-.0318	.0242	.0626	.1236	.2066			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (RE8028)

MACH (10) = 1.501 ALPHA (6) = 2.214

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.4126	.3831	.2175												
70.000	.4178	.3879	.2547												
80.000	.3489	.3673	.2835												
90.000			.3435	.2259	-.0242	-.0747	-.0921	.0000	-.0767	-.1071	-.0989	-.1008	-.0604	-.0997	-.0562
100.000						-.0734	-.0793	-.0971	-.0959	-.1032	-.1123	-.1316	-.1101	-.1162	-.0728
110.000						-.0676	-.0856	-.1108	-.1262	-.1486	-.1546	-.1531	-.1483	-.0879	-.1029
120.000						-.0298								-.0861	
130.000						-.1929								-.2020	
140.000						-.3590								-.2096	
150.000						-.3418								-.1987	
160.000						-.3065								-.1902	
170.000						-.2978								-.1846	
180.000						-.2961	-.2814	-.2525	-.2187	-.2124	-.2005	-.1926	-.1857	-.1819	-.1791

X/L	.4900	.4680	.4060	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0231	-.0226	-.0255	-.0235	-.0237	-.0370	-.0314	.0000	-.0217	.0083	.0342	.0190	.0031	-.0256	.0000
100.000	-.0512	-.0567	-.0491	-.0344	-.0309	-.0521	-.0539	-.0530	-.0308	-.0410	.0190	.0124	.0018	-.0110	-.0224
110.000	-.0895	-.0696	-.0571	-.0554	-.0574	-.0757	-.0721	-.0691	-.0601	-.0528	-.0295	-.0164	-.0143	-.0346	-.0560
120.000						-.1206								-.1353	
130.000						-.1362								-.1474	
140.000						-.1379								-.1621	
150.000						-.1351								-.1763	
160.000						-.1497								-.1953	
170.000						-.1653								-.2193	
180.000	-.1788	-.1840	-.1764	-.1785	-.1814	-.1691	-.1964	-.2039	-.2075	-.2154	-.2163	-.2194	-.2243	-.2206	-.1949

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.0004		
70.000							-.0103	.0114	.0000
80.000							.0005	-.0336	-.0554
90.000	-.0370	-.1829	-.0709	-.1040	-.1130	.0000	.0255	-.0511	-.0725
100.000	-.0383	-.0887	-.0740	-.0847	.0140	.0919			
110.000	-.0209	-.0606	-.0873	-.0075	.1846	.1809			
120.000						.3356			
130.000						.3133			
140.000						-.0949			
150.000						-.1373			
160.000						.0265			
170.000						.1557			
180.000	-.0330	-.0853	.0279	.0556	.0871	.1624			

AMES 06-030 PRESSURE VENTING - INTEG. VEHICLE (RE8028)

MACH (IO) = 1.501 ALPHA (P) = 4.314

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0670	.1290	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4090	.4310
PHI															
60.000	.3959	.3578	.1818												
70.000	.3882	.3559	.2199												
80.000	.3870	.3334	.2435												
90.000			.2808	.1924	-.0463	-.0903	-.1055	.0000	-.0832	-.1090	-.0944	-.0923	-.0765	-.1201	-.0750
100.000						-.0905	-.0934	-.1068	-.1005	-.1057	-.1098	-.1228	-.1092	-.1306	-.0926
110.000						-.0784	-.0949	-.1204	-.1294	-.1510	-.1575	-.1570	-.1485	-.1075	-.1277
120.000						-.0478								-.0972	
130.000						-.2013								-.2571	
140.000						-.3733								-.2464	
150.000						-.3772								-.2368	
160.000						-.3477								-.2144	
170.000						-.3206								-.2069	
180.000						-.3217	-.3084	-.2827	-.2475	-.2341	-.2222	-.2196	-.2067	-.2070	-.2002

X/L	.4900	.4680	.4880	.5090	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0440	-.0380	-.0381	-.0363	-.0383	-.0555	-.0508	.0000	-.0331	-.0074	.0283	.0086	-.0185	-.0433	.0000
100.000	-.0732	-.0780	-.0686	-.0560	-.0560	-.0756	-.0781	-.0719	-.0487	-.0569	.0003	-.0040	-.0168	-.0299	-.0430
110.000	-.1195	-.1013	-.0909	-.0885	-.0904	-.1055	-.0975	-.0960	-.0870	-.0811	-.0575	-.0373	-.0326	-.0598	-.0733
120.000						-.1642								-.1801	
130.000						-.1753								-.1866	
140.000						-.1731								-.1947	
150.000						-.1646								-.2045	
160.000						-.1764								-.2187	
170.000						-.1918								-.2384	
180.000	-.2004	-.2080	-.1980	-.2030	-.2054	-.2136	-.2186	-.2246	-.2321	-.2359	-.2367	-.2401	-.2427	-.2382	-.1881

X/L	.7290	.7470	.7870	.7890	.8030	.8290	.8620	.9000	.9400
PHI									
80.000							-.0502		
70.000							-.0515	-.0169	.0000
80.000							-.0286	-.0627	-.0789
90.000	-.0801	-.1110	-.1011	-.1279	-.1464	.0000	.0038	-.0773	-.0987
100.000	-.0393	-.0887	-.0894	-.1136	-.0728	.0660			
110.000	-.0463	-.0826	-.1192	-.0908	.1478	.1764			
120.000						.3197			
130.000						.2705			
140.000						-.1488			
150.000						-.0471			
160.000						.0819			
170.000						.1126			
180.000	-.0808	-.0886	.0884	.0485	.0818	.1445			

AMES 66-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (I0) = 1.501 ALPHA (3) = 6.440

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1260	.1640	.2030	.2420	.2640	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3744	.3257	.1428												
70.000	.3386	.3192	.1787												
80.000	.2629	.2891	.2029												
90.000			.2241	.1549	-.0467	-.1029	-.1151	.0000	-.0830	-.1011	-.0813	-.0787	-.0545	-.1097	-.0456
100.000						-.1022	-.1019	-.1106	-.0995	-.1049	-.1024	-.1093	-.0916	-.1083	-.0804
110.000						-.0896	-.1006	-.1264	-.1312	-.1501	-.1538	-.1516	-.1385	-.1072	-.1169
120.000						-.0578								-.1027	
130.000						-.2123								-.3058	
140.000						-.3812								-.2648	
150.000						-.3959								-.2691	
160.000						-.3757								.2438	
170.000						-.3450								-.2323	
180.000						-.3449	-.3326	-.3082	-.2693	-.2575	-.2443	-.2390	-.2284	-.2266	-.2225

X/L	.4900	.4680	.4880	.5050	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0429	-.0484	-.0512	-.0462	-.0503	-.0665	-.0588	.0000	-.0421	-.0112	.0205	-.0014	-.0348	-.0554	.0000
100.000	-.0734	-.0894	-.0827	-.0893	-.0720	-.0945	-.0935	-.0896	-.0639	-.0656	-.0097	-.0274	-.0354	-.0509	-.0663
110.000	-.1172	-.1141	-.1097	-.1147	-.1160	-.1366	-.1299	-.1298	-.1140	-.1014	-.0742	-.0503	-.0567	-.0916	-.1061
120.000						-.2475								-.2591	
130.000						-.2371								-.2266	
140.000						-.2108								-.2270	
150.000						-.1984								-.2313	
160.000						-.2054								-.2429	
170.000						-.2174								-.2484	
180.000	-.2206	-.2250	-.2171	-.2204	-.2224	-.2313	-.2395	-.2444	-.2504	-.2549	-.2555	-.2478	-.2169	-.1679	-.0877

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8620	.9000	.9400
PHI									
60.000							-.1180		
70.000							-.1014	-.0478	.0000
80.000							-.0601	-.0917	-.0858
90.000	-.0808	-.0859	-.0838	-.1560	-.1742	.0000	-.0226	-.1005	-.1128
100.000	-.0808	-.1091	-.1201	-.1471	-.1615	.0368			
110.000	-.0717	-.1100	-.1533	-.1456	.0943	.1707			
120.000						.2865			
130.000						.2153			
140.000						-.1875			
150.000						.0068			
160.000						.0548			
170.000						.0042			
180.000	-.0914	-.1218	.0137	.0337	.0554	.1425			

AMES 68-630 PRESSURE VENTING - INTEG. VEHICLE (REB028)

MACH (IG) = 1.499 ALPHA (9) = 8.537

SECTION (1)ORB. FUSELAGE DEPENDENT VARIABLE CP

X/L	.0870	.1290	.1640	.2030	.2420	.2840	.2820	.3010	.3190	.3380	.3570	.3750	.3940	.4050	.4310
PHI															
60.000	.3363	.2846	.1169												
70.000	.2909	.2790	.1487												
80.000	.2148	.2360	.1672												
90.000			.1845	.1028	-.0749	-.1049	-.1114	.0000	-.0851	-.0460	-.0623	-.0410	-.0184	-.0863	-.0476
100.000						-.1079	-.1082	-.1075	-.1010	-.1003	-.0898	-.0838	-.0808	-.0810	-.0625
110.000						-.0829	-.1031	-.1294	-.1305	-.1520	-.1524	-.1319	-.1112	-.0942	-.1049
120.000						-.0727								-.0992	
130.000						-.2232								-.3313	
140.000						-.3884								-.3178	
150.000						-.4077								-.3018	
160.000						-.3919								-.2789	
170.000						-.3669								-.2601	
180.000						-.3671	-.3567	-.3365	-.2983	-.2829	-.2718	-.2640	-.2547	-.2513	-.2459

X/L	.4900	.4680	.4880	.5080	.5240	.5460	.5610	.5800	.5980	.6170	.6360	.6540	.6730	.6880	.7100
PHI															
90.000	-.0808	-.0881	-.0481	-.0476	-.0533	-.0597	-.0484	.0000	-.0242	.0007	.0306	.0100	-.0420	-.0470	.0000
100.000	-.0880	-.0884	-.0828	-.0734	-.0776	-.0942	-.0682	-.0829	-.0521	-.0525	-.0030	-.0187	-.0485	-.0540	-.0745
110.000	-.1127	-.1138	-.1164	-.1247	-.1269	-.1435	-.1380	-.1286	-.1129	-.0988	-.0768	-.0746	-.0772	-.1091	-.1223
120.000						-.3656								-.3816	
130.000						-.3015								-.2718	
140.000						-.2668								-.2611	
150.000						-.2357								-.2538	
160.000						-.2393								-.2223	
170.000						-.2628								-.1395	
180.000	-.2388	-.2394	-.2384	-.2388	-.2389	-.2402	-.2583	-.2836	-.2800	-.2417	-.1841	-.1526	-.1228	-.1083	-.0799

X/L	.7290	.7470	.7670	.7850	.8030	.8290	.8820	.9000	.9400
PHI									
90.000							-.1709		
70.000							-.1659	-.0773	.0000
80.000							-.1017	-.1188	-.1113
90.000	-.0918	-.0788	-.1117	-.1780	-.2017	.0000	-.0560	-.1279	-.1526
100.000	-.0918	-.1231	-.1419	-.1776	-.2037	-.0046			
110.000	-.0893	-.1272	-.1922	-.1864	.0240	.1571			
120.000						.2554			
130.000						.1908			
140.000						-.2125			
150.000						-.0035			
160.000						.0477			
170.000						-.0737			
180.000	-.1107	-.1908	-.0089	.0815	.0803	.1980			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.